

THIRTY-THIRD ANNUAL REPORT

OF THE

GOVERNMENT HOSPITAL FOR THE INSANE

TO THE

SECRETARY OF THE INTERIOR.

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1888.

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WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
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REPORT  
OF THE  
BOARD OF VISITORS OF THE GOVERNMENT HOSPITAL  
FOR THE INSANE.

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OFFICERS OF THE HOSPITAL, JUNE 30, 1888.

VISITORS :

JOSEPH M. TONER, M. D.,  
*President of the Board.*  
JAMES C. WELLING, LL. D.  
Mrs. A. M. GANGEWER.  
Mrs. AMELIA J. ROWLAND.  
Hon. WM. A. MAURY.

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F. M. GUNNELL, M. D.,  
SURGEON-GENERAL, U. S. N.  
Rev. BYRON SUNDERLAND, D. D.  
JOHN B. HAMILTON, M. D.,  
SURGEON-GENERAL, M. H. S.

EXECUTIVE COMMITTEE OF THE BOARD :

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Rev. THOMAS B. HUGHES.  
Rev. W. S. EDWARDS, D. D.

MEDICAL OFFICERS :

W. W. GODDING, M. D., *Superintendent and ex-officio Secretary of Board of Visitors.*  
A. H. WITMER, M. D., *First Assistant Physician in charge of Female Department.*  
M. J. STACK, M. D., *Second Assistant Physician in charge of Male Department.*  
A. C. PATTERSON, M. D., *Third Assistant Physician and Chief Clerk.*  
J. C. SIMPSON, M. D., *Fourth Assistant Physician.*  
I. W. BLACKBURN, M. D., *Special Pathologist.*  
J. V. CALVER, D. D. S., *Dentist.*



REPORT  
OF  
THE BOARD OF VISITORS.

GOVERNMENT HOSPITAL FOR THE INSANE,  
*Washington, D. C., August, 17, 1888.*

SIR: In accordance with the requirements of the statutes the Board of Visitors submit this their thirty-third annual report.  
In the following tables they present a statement of the movements in population and results obtained at the institution during the fiscal year ended June 30, 1888:

SUMMARY.

	Males.	Females.	Total.
Remaining June 30, 1887 .....	991	311	1,302
Admitted during the year ending June 30, 1888 .....	247	71	318
Whole number under treatment.....	1,238	382	1,620
DISCHARGED.			
Recovered.....	59	10	69
Improved .....	52	14	66
Unimproved.....	3	1	4
Died .....	95	25	120
Total discharged and died.....	209	50	259
Remaining June 30, 1888 .....	1,029	332	1,361

Admissions and discharges.

		Males.		Females.		Totals.	
REMAINING JUNE 30, 1887.							
Army.....	{ White ...	609	617	3	3	620	
	{ Colored ..	8		.....			
Navy.....	{ White ...	57	58			58	
	{ Colored ..	1					
Marine-Hospital Service.....	{ White ...	12	14			14	
	{ Colored ..	2					
Civil life.....	{ White ...	215	302	222	308	610	
	{ Colored ..	87		86			
			991		311	1,302	
ADMITTED DURING THE YEAR 1887-'88.							
Army.....	{ White ...	121	128			128	
	{ Colored ..	7					

Admissions and discharges—Continued.

		Males.		Females.		Totals.	
ADMITTED DURING THE YEAR 1887-'88—continued.							
Navy .....	{ White ..	17	18			18	
	{ Colored ..	1					
Marine Hospital Service.....	{ White ..	4	5			5	
	{ Colored ..	1					
Civil life.....	{ White ..	75	96	51	71	167	318
	{ Colored ..	21		20			
			247		71		
UNDER TREATMENT DURING THE YEAR.							
Army... ..	{ White ..	730	745	3	3	748	
	{ Colored ..	15					
Navy .....	{ White ..	74	76			76	
	{ Colored ..	2					
Marine Hospital Service.....	{ White ..	16	19			19	
	{ Colored ..	3					
Civil life .....	{ White ..	290	398	273	379	777	1,620
	{ Colored ..	108		106			
			1,238		382		
DISCHARGED DURING THE YEAR.—Recovered.							
Army.....	{ White ..	18	20			20	
	{ Colored ..	2					
Navy .....	{ White ..	8	8			8	
	{ Colored ..						
Marine Hospital Service.....	{ White ..	1	2			2	
	{ Colored ..	1					
Civil life.....	{ White ..	26	29	6	10	39	69
	{ Colored ..	3		4			
			59		10		
DISCHARGED DURING THE YEAR.—Improved.							
Army.....	{ White ..	30	31			31	
	{ Colored ..	1					
Navy .....	{ White ..	2	2			2	
	{ Colored ..						
Marine Hospital Service.....	{ White ..						
	{ Colored ..						
Civil life.....	{ White ..	16	19	12	14	33	66
	{ Colored ..	3		2			
			52		14		
DISCHARGED DURING THE YEAR.—Unimproved.							
Army.....	{ White ..	3	3			3	
	{ Colored ..						
Navy .....	{ White ..						
	{ Colored ..						
Marine Hospital Service.....	{ White ..						
	{ Colored ..						
Civil life.....	{ White ..			1	1	1	4
	{ Colored ..						
DECEASED DURING THE YEAR.							
Army.....	{ White ..	56	57			57	
	{ Colored ..	1					

*Admissions and discharges—Continued.*

				Males.		Females.		Totals.	
DECEASED DURING THE YEAR—continued.									
Navy .....	{ White ...	8							
	{ Colored..								
			8					8	
Marine Hospital Service .....	{ White ...	1							
	{ Colored..								
			1					1	
Civil life .....	{ White ...	15			14				
	{ Colored..	14			11				
			29			25		55	
				95			25		120
REMAINING JUNE 30, 1888.									
Army .....	{ White ...	623			3				
	{ Colored..	11							
			634			3		637	
Navy .....	{ White ...	56							
	{ Colored..	2							
			58					58	
Marine Hospital Service .....	{ White ...	14							
	{ Colored..	2							
			16					16	
Civil life .....	{ White ...	233			238				
	{ Colored..	88			91				
			321			329		650	
				1,029			332		1,361

The patients from civil life remaining June 30, 1888, are classified as follows:

	Males.	Females.	Total.
District of Columbia—transient .....	43	23	66
District of Columbia—resident indigent .....	234	297	531
United States convicts and criminals .....	39	5	44
Private patients .....	5	4	9
Total .....	321	329	650

*Monthly changes of population.*

Date.	Admitted.			Discharged.						
	Males.	Females.	Total.	Males.	Females.	Total.	Died.			Total discharges, including deaths.
							Males.	Females.	Total.	
July, 1887 .....	14	6	20	7	4	11	9	3	12	23
August, 1887 .....	14	12	26	3	3	6	7	1	8	14
September, 1887 .....	15	5	20	7	3	10	3	2	5	15
October, 1887 .....	26	2	28	5	1	6	10	4	14	20
November, 1887 .....	14	5	19	9	1	10	5	1	6	16
December, 1887 .....	13	6	19	5	3	8	6	2	8	16
January, 1888 .....	41	3	44	3	1	4	8	2	10	14
February, 1888 .....	34	8	42	18	1	19	11	2	13	32
March, 1888 .....	11	4	15	8	2	10	16	3	19	29
April, 1888 .....	11	4	15	11		11	8		8	19
May, 1888 .....	40	8	48	26	2	28	6	3	9	37
June, 1888 .....	14	8	22	12	4	16	6	2	8	24
Total .....	247	71	318	114	25	139	95	25	120	259



Cause of death.

Aneurism .....	1	General paralysis with diarrhea.....	2
Apoplexy .....	5	General paralysis with epileptiform	
Apoplexy, hemorrhagic.....	3	convulsions .....	5
Apoplexy, with organic disease of		General paralysis with exhaustion..	2
brain .....	1	General paralysis with œdema of brain	1
Bright's disease, chronic.....	5	General paralysis with phthisis....	1
Bright's disease, chronic, with œdema		General paralysis with pulmonary	
of brain.....	1	gangrene.....	1
Bright's disease, chronic, with pulmo-		Hydrocephalus .....	1
nary congestion .....	1	Leptomeningitis, pyæmic.....	1
Bronchitis.....	1	Maniacal exhaustion with cardiac	
Bronchitis, chronic, with cardiac val-		hypertrophy.....	1
vular disease .....	1	Maniacal exhaustion with congestive	
Bronchitis, chronic, with diarrhea ..	1	apoplexy.....	1
Carcinoma .....	3	Meningitis .....	1
Cardiac valvular disease.....	4	Œdema of brain.....	2
Diarrhea .....	7	Organic disease of brain .....	1
Epileptic convulsions .....	4	Organic disease of brain with pneu-	
Epileptic convulsions with pulmo-		monia.....	1
nary congestion .....	1	Paralysis, bulbar.....	2
Epileptiform convulsions .....	3	Paralysis, spinal.....	1
Epileptiform convulsions with lepto-		Peritonitis .....	2
meningitis.....	1	Phthisis.....	14
Exhaustion and inanition.....	9	Pneumonia.....	9
Fever, remittent, with intercurrent		Sarcoma .....	1
pneumonia.....	1	Senectus .....	2
Fever, typhoid .....	1	Senectus with diarrhœa.....	2
Fever, typho-malarial .....	1	Senectus with œdema of brain.....	1
Fracture, cranial, with compression		Senectus with organic disease of brain	1
(accidental).....	1	Senectus with senile atrophy of kid-	
General paralysis.....	2	ney and heart exhaustion.....	1
General paralysis with bulbar pa-			
ralysis .....	5	Total .....	120

Duration of the mental disease on admission of those who recovered.

Under 10 days.....	5	Between 2 and 3 years.....	3
Between 10 and 20 days.....	8	Between 3 and 4 years.....	2
Between 20 and 30 days.....	3	Between 4 and 5 years.....	1
Between 1 and 2 months.....	13	Between 6 and 7 years.....	4
Between 2 and 3 months.....	3	Between 8 and 9 years.....	2
Between 3 and 4 months.....	7	Between 9 and 10 years.....	1
Between 4 and 5 months.....	3	Between 18 and 20 years.....	1
Between 6 and 8 months.....	7	Between 20 and 25 years.....	1
Between 8 and 10 months .....	1		
Between 1 and 2 years.....	4	Total .....	69

Duration of mental disease of those who died.

Less than one month .....	1	Fourteen years .....	4
One month.....	2	Fifteen years.....	2
Two months.....	1	Sixteen years.....	1
Three months .....	1	Seventeen years.....	2
Six months.....	3	Nineteen years .....	2
Eight months .....	2	Twenty years .....	2
One year.....	18	Twenty-one years .....	1
Two years .....	12	Twenty-two years .....	1
Three years .....	16	Twenty-three years.....	2
Four years .....	6	Twenty-four years.....	1
Five years .....	5	Twenty-five years .....	2
Six years.....	5	Twenty-seven years .....	2
Seven years .....	2	Twenty-nine years .....	1
Eight years .....	5	Thirty years.....	1
Nine years .....	6	Thirty-eight years.....	1
Ten years .....	1	Unknown .....	2
Eleven years .....	1		
Twelve years.....	1	Total .....	120
Thirteen years .....	5		

*Duration of disease on admission.*

		Males.		Females.		Totals.	
LESS THAN SIX MONTHS.							
Army .....	{ White ...	29	35			35	
	{ Colored ..	6					
Navy .....	{ White ...	5	5			5	
	{ Colored ..						
Marine Hospital Service .....	{ White ...	2	2			2	
	{ Colored ..						
Civil life .....	{ White ...	37	47	25	39	86	
	{ Colored ..	10		14			
			89		39	128	
LESS THAN ONE YEAR.							
Army .....	{ White ...	8	8			8	
	{ Colored ..						
Navy .....	{ White ...	2	2			2	
	{ Colored ..						
Marine Hospital Service .....	{ White ...		1			1	
	{ Colored ..	1					
Civil life .....	{ White ...	8	10	5	6	16	
	{ Colored ..	2		1			
			21		6	27	
ONE TO TWO YEARS.							
Army .....	{ White ...	38	39			39	
	{ Colored ..	1					
Navy .....	{ White ...	7	8			8	
	{ Colored ..	1					
Marine Hospital Service .....	{ White ...	1	1			1	
	{ Colored ..						
Civil life .....	{ White ...	15	20	7	9	29	
	{ Colored ..	5		2			
			68		9	77	
OVER TWO YEARS.							
Army .....	{ White ...	15	15			15	
	{ Colored ..						
Navy .....	{ White ...						
	{ Colored ..						
Marine Hospital Service .....	{ White ...	1	1			1	
	{ Colored ..						
Civil life .....	{ White ...	2	3			3	
	{ Colored ..	1					
			19			19	
OVER THREE YEARS.							
Army .....	{ White ...	5	5			5	
	{ Colored ..						
Navy .....	{ White ...	2	2			2	
	{ Colored ..						
Marine Hospital Service .....	{ White ...						
	{ Colored ..						
Civil life .....	{ White ...	3	4	1	1	5	
	{ Colored ..	1					
			11		1	12	

*Duration of disease on admission—Continued.*

		Males.		Females.		Totals.	
OVER FOUR YEARS.							
Army .....	{ White ...	3					
	{ Colored ..						
			3			3	
Navy .....	{ White ...						
	{ Colored ..						
Marine Hospital Service .....	{ White ...						
	{ Colored ..						
Civil life .....	{ White ...	1		2			
	{ Colored ..						
			1		2	3	
			4		2		6
FIVE TO TEN YEARS.							
Army .....	{ White ...	13					
	{ Colored ..						
			13				13
Navy .....	{ White ...						
	{ Colored ..						
Marine Hospital Service .....	{ White ...						
	{ Colored ..						
Civil life .....	{ White ...	5		2			
	{ Colored ..						
			5		2	7	
			18		2		20
TEN TO TWENTY YEARS.							
Army .....	{ White ...	5					
	{ Colored ..						
			5			5	
Navy .....	{ White ...	1					
	{ Colored ..						
			1			1	
Marine Hospital Service .....	{ White ...						
	{ Colored ..						
Civil life .....	{ White ...	1		4			
	{ Colored ..			2			
			1		6	7	
			7		6		13
OVER TWENTY YEARS.							
Army .....	{ White ...	5					
	{ Colored ..						
			5			5	
Navy .....	{ White ...						
	{ Colored ..						
Marine Hospital Service .....	{ White ...						
	{ Colored ..						
Civil life .....	{ White ...	3		5			
	{ Colored ..	1		1			
			4		6	10	
			9		6		15
UNKNOWN.							
Army .....	{ White ...						
	{ Colored ..						
Navy .....	{ White ...						
	{ Colored ..						
Marine Hospital Service .....	{ White ...						
	{ Colored ..						
Civil life .....	{ White ...						
	{ Colored ..	1					
			1			1	
			1				1



Table showing the nativity, as far as could be ascertained, of the 7,231 cases treated.

Native born.		Foreign born.	
	Number.		Number.
District of Columbia.....	854	Ireland .....	1,383
New York .....	511	Germany .....	928
Maryland.....	532	England .....	164
Virginia .....	599	France .....	63
Pennsylvania.....	391	Canada .....	58
Ohio .....	218	Scotland.....	62
Massachusetts.....	159	Switzerland.....	26
Maine .....	78	Italy .....	28
Illinois .....	71	Denmark .....	20
Connecticut .....	57	Norway.....	13
New Hampshire .....	57	Sweden .....	25
Indiana.....	61	Poland .....	14
Kentucky .....	51	Russia.....	12
Michigan .....	41	Austria.....	15
New Jersey.....	60	Nova Scotia .....	9
Tennessee.....	32	Spain .....	4
Wisconsin .....	27	Holland.....	9
Vermont.....	35	Wales .....	6
Missouri .....	37	Portugal.....	4
Rhode Island .....	22	Hungary .....	4
Delaware .....	15	Mexico .....	5
North Carolina .....	28	Saxony .....	5
Alabama.....	13	Malta.....	3
South Carolina.....	16	Belgium .....	4
Iowa .....	7	Buenos Ayres .....	1
Georgia.....	18	Costa Rica.....	1
Mississippi .....	19	Bavaria.....	4
Louisiana.....	10	Sicily.....	1
West Virginia.....	15	British Columbia .....	1
Kansas .....	3	British Possessions .....	1
Florida .....	3	East Indies (British) .....	4
Texas .....	9	West Indies (British).....	6
California .....	5	New Brunswick .....	1
Indian Territory.....	5	Cuba .....	2
Colorado.....	1	China.....	1
Arkansas.....	2	Sandwich Islands.....	1
Montana.....	1	Coast of Africa .....	1
Oregon .....	1	Cyprus .....	1
Minnesota.....	1	Turkey.....	1
		Greece.....	1
Total .....	4,065	New Granada.....	1
		West Indies (Hayti).....	1
		Total .....	2,894

Native born .....	4,06
Foreign born .....	2,89
Unknown.....	27
Total .....	7,231

Form of disease in those admitted.

Disease.	Total last year.	Admitted during year.	Total.	Disease.	Total last year.	Admitted during year.	Total.
Mania, acute.....	2,232	67	2,299	Dipsomania .....	428	7	435
Mania, chronic .....	1,208	31	1,239	Kleptomania.....	4		4
Melancholia.....	944	104	1,048	Nymphomania.....	4		4
Dementia .....	1,689	51	1,740	Imbecility .....	79	11	90
Dementia, senile.....	139	23	162	Opium-eaters .....	16	3	19
Paresis .....	155	21	176	Idiocy .....	1		1
Typhomania (Bell's disease).....	2		2	Not insane.....	11		11
Diffuse suppurative meningitis .....	1		1	Total .....	6,913	318	7,231

Tabular statement of the time of life at which the 7,231 cases treated since the opening of the institution became insane.

Age.	1887.	Admitted.	1888.
Under 10 years .....	140	15	155
Between 10 and 15 years.....	73	2	75
Between 15 and 20 years.....	395	13	408
Between 20 and 25 years.....	1,122	42	1,164
Between 25 and 30 years.....	1,274	40	1,314
Between 30 and 35 years.....	1,105	33	1,138
Between 35 and 40 years.....	816	26	842
Between 40 and 45 years.....	589	27	616
Between 45 and 50 years.....	408	39	447
Between 50 and 60 years.....	455	44	499
Between 60 and 70 years.....	258	19	277
Between 70 and 80 years.....	91	15	106
Between 80 and 90 years.....	14		14
Over 90 years .....	1	1	2
Unknown .....	161	2	163
Not insane .....	11		11
Total .....	6,913	318	7,231

As far as could be ascertained, the volunteers of the Army and Navy under treatment during the year ending June 30, 1888, entered the service from the following States :

States.	Army.	Navy.	Total.	States.	Army.	Navy.	Total.
New York.....	81		81	Tennessee .....	1		1
Ohio .....	70		70	Kansas .....	1		1
Pennsylvania.....	58		58	Nebraska .....	1		1
Indiana .....	35		35	Delaware .....	3		3
Michigan .....	23		23	Minnesota .....	5		5
Illinois.....	31		31	Iowa .....	5		5
Wisconsin .....	12		12	North Carolina .....	1		1
Missouri.....	13		13	New Mexico .....	1		1
Connecticut.....	12		12	Kentucky .....	8		8
New Hampshire.....	9		9	Louisiana .....	1		1
Vermont.....	5		5	West Virginia .....	3		3
Maryland.....	11		11	Rhode Island .....	1		1
Massachusetts.....	31		31	Colorado .....	1		1
New Jersey.....	7		7	Unknown.....	11	2	13
Maine.....	13	1	14				
California.....	1		1	Total .....	455	3	458

Private patients.

	Male.	Female.	Total.
There were at the beginning of the year.....	5	5	10
Admitted during the year .....	2	1	3
Whole number under treatment.....	7	6	13
Discharged during the year.....	2	2	4
Remaining at end of the year .....	5	4	9



Table showing the history of the annual admissions since the opening of the hospital, with the discharges and deaths, and the number for each year remaining June 30, 1888.

Years.	Admitted.			Of each year's discharged and died in 1888.												Total discharged and died of each year's admissions.												Remaining of each year's admissions June 30, 1888.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	New cases.		Relapsed cases.	Recovered.			Improved.			Unimproved.			Died.			Recovered.			Improved.			Unimproved.			Died.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	Males.	Females.		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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Table showing admissions, discharges, and deaths, with the mean annual mortality and proportion of recoveries, per cent. of the discharges, including deaths, for each year since the opening of the hospital.

GOVERNMENT HOSPITAL FOR THE INSANE.

Years.	Admitted.			Discharged.						Remaining June 30 in each year.			Daily average.			Percentage of recoveries on discharges.			Percentage of deaths on average numbers.			Percentage of deaths on total numbers under treatment.		
	Admitted.			Improved.			Unimproved.			Died.			Total.			Total.			Total.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
1855.....	26	37	63	3	.....	.....	.....	.....	.....	.....	.....	.....	26	34	60	19.35	20.65	40.00	.....	100.00	100.00	.....	.....	.....
1855-'56.....	36	11	47	3	.....	.....	.....	.....	.....	5	3	8	54	39	93	41.20	37.98	79.18	37.50	33.33	35.71	12.13	7.09	10.10
1856 '57.....	25	27	52	2	.....	.....	.....	.....	.....	8	8	16	59	50	109	54.55	42.80	97.35	10.00	25.00	16.66	14.66	18.69	16.43
1857-'58.....	29	14	43	13	5	18	1	1	2	7	6	13	65	52	117	57.70	50.31	108.01	56.52	41.66	51.42	12.13	11.92	12.03
1858-'59.....	47	18	65	16	5	21	1	4	5	6	4	10	84	54	138	72.93	56.24	129.17	57.14	31.25	47.73	8.22	7.11	7.74
1859-'60.....	68	24	92	26	7	33	4	3	7	13	5	18	106	61	167	100.68	59.00	159.68	56.52	41.17	52.38	12.91	8.47	11.27
1860-'61.....	61	31	95	42	11	53	5	2	7	12	7	19	109	72	181	109.76	64.81	174.57	68.85	55.55	65.43	10.93	10.80	10.88
1861-'62.....	174	12	186	96	8	104	14	1	15	26	10	36	147	65	212	123.75	65.74	189.49	70.59	42.10	67.09	21.01	15.21	19.00
1862-'63.....	330	25	355	197	6	203	17	1	18	57	4	61	203	76	279	168.41	72.31	240.72	71.89	42.85	70.48	33.84	5.53	25.34
1863-'64.....	484	25	509	282	6	288	69	1	70	67	8	75	264	86	350	205.73	77.66	283.39	66.66	40.00	65.75	32.56	10.30	26.40
1864-'65.....	478	26	514	315	9	324	110	12	122	11	.....	.....	167	93	260	277.42	83.81	361.23	54.78	31.03	53.64	50.10	9.54	40.69
1865-'66.....	194	28	222	104	5	109	20	7	27	41	12	53	186	96	282	190.92	90.70	281.62	59.42	20.00	54.50	21.47	13.23	18.82
1866-'67.....	88	21	109	45	7	52	11	3	14	19	14	33	188	92	280	189.06	89.46	279.12	52.32	28.00	46.85	10.02	15.63	11.82
1867-'68.....	120	33	153	49	15	64	6	2	8	22	5	27	226	102	328	221.17	96.44	317.61	59.75	65.22	60.95	9.95	5.18	9.50
1868-'69.....	133	35	168	59	11	70	9	6	15	24	9	33	259	109	368	244.55	108.08	352.58	59.00	39.27	54.69	9.81	8.33	9.35
1869-'70.....	146	36	182	32	8	40	16	8	24	15	3	18	331	123	454	294.69	108.08	402.77	43.24	36.37	43.97	5.09	2.77	4.36
1870-'71.....	161	34	195	50	12	62	21	7	28	33	11	44	384	124	508	354.34	121.66	476.00	46.30	36.36	43.97	9.31	9.04	9.24
1871-'72.....	142	44	186	43	8	51	16	13	29	37	7	44	422	139	561	407.21	131.57	538.78	41.34	27.59	38.34	9.09	5.32	8.16
1872-'73.....	153	51	204	49	15	64	23	5	28	32	13	45	468	152	620	431.03	144.11	575.14	45.70	39.47	44.13	7.42	9.02	7.82
1873-'74.....	192	38	230	67	12	79	22	8	30	39	11	50	526	156	682	492.44	151.36	643.80	50.00	35.29	47.02	7.92	7.27	7.76
1874-'75.....	179	51	230	66	9	75	28	22	50	51	7	58	552	166	718	536.46	164.17	700.63	43.13	21.95	38.66	9.50	4.26	8.27
1875-'76.....	166	47	213	67	17	84	26	10	36	48	18	66	576	168	744	564.78	163.59	730.37	47.18	37.78	45.45	8.49	10.87	9.04
1876-'77.....	147	51	198	66	17	83	27	13	40	45	7	52	583	182	765	587.41	176.30	763.71	47.80	45.94	46.89	7.66	3.96	6.80
1877-'78.....	138	44	182	49	11	60	32	9	41	37	9	46	600	193	793	596.82	184.37	781.19	40.49	33.33	38.96	6.19	4.88	5.88
1878-'79.....	169	53	222	68	24	92	30	7	37	41	12	63	617	202	819	619.10	196.70	815.80	44.73	54.54	46.93	6.23	6.10	7.72
1879-'80.....	181	44	225	38	14	52	23	10	33	46	13	59	691	206	897	655.34	196.63	851.97	35.51	35.00	35.37	7.01	6.61	6.92
1880-'81.....	161	62	223	62	10	72	27	9	36	63	18	81	700	225	925	685.37	211.38	896.75	40.78	23.25	36.92	9.19	8.51	9.03
1881-'82.....	178	69	247	62	21	83	31	8	39	74	27	101	709	233	942	697.10	232.88	929.98	36.69	34.43	36.08	10.61	11.59	10.86
1882-'83.....	201	64	265	76	19	95	33	16	49	46	17	63	735	239	994	729.89	235.27	965.16	49.05	31.03	44.13	6.30	7.22	6.52
1883-'84.....	286	61	347	68	13	81	35	8	43	51	16	67	884	262	1,146	797.21	243.27	1,040.48	42.03	34.21	40.51	6.39	6.57	6.44
1884-'85.....	229	91	320	65	24	89	37	12	49	84	21	105	926	295	1,221	902.45	270.89	1,173.34	34.76	41.37	36.32	9.31	7.75	8.94
1885-'86.....	234	69	303	55	22	77	58	15	73	79	23	102	966	301	1,267	936.39	283.23	1,219.62	28.35	34.92	29.96	8.54	8.12	8.36
1886-'87.....	206	62	268	57	15	72	49	17	66	73	19	92	991	311	1,302	956.07	297.36	1,253.43	31.49	28.84	30.90	7.63	6.38	7.34
1887-'88.....	247	71	318	59	10	69	52	14	66	95	25	120	1,029	332	1,361	1,009.55	315.53	1,325.08	28.23	20.00	26.64	9.41	7.92	9.06



*Summary of total admissions.*

	Male.	Female.	Both sexes.
Percentages of cases recovered.....	40.40	27.13	37.80
Percentages of cases improved.....	14.73	17.97	15.36
Percentages of cases unimproved.....	2.31	4.72	2.78
Percentages of cases died.....	24.86	26.78	25.24
Percentages of cases remaining.....	17.70	23.40	18.82
	100.00	100.00	100.00

The whole number under treatment during the year, 1,620, proves the highest yet reached in the records of the hospital, and the daily average number, 1,325, was so considerably above that on which the estimates for the year were based that it was found necessary to ask a small appropriation as a special deficiency.

The number of deaths, 120, is something less than  $7\frac{1}{2}$  per cent. of the whole number under treatment. The reported recoveries, 69, hardly 27 per cent. of the discharges, might be considered a disheartening exhibit if the advanced age and chronic character of the insanity in so large a proportion of the cases admitted was not taken into account. In view of the alarming frequency of progressive brain disease at the start and the comparatively rare occurrence nowadays of simple, uncomplicated acute mania it is doubtful if we ought to claim that more than one-fourth of those now taken insane will ever be permanently restored to reason under the most favorable surroundings. In the case of many of those reported as recovered the insanity will return when the person is again subjected to strain in the modern methods of life, or of some who may not again become actively insane it will be found that the mind has apparently lost its grasp; that they are lookers-on, not workers, in the world; the old-time resolution is wanting; the strong man seems to be groping for a child to lead him. Hence some have hastily concluded that insanity is a disease from which there is no real recovery. This is not so; while without doubt much which passes by the name of recovery in insanity is but imperfect, there is, on the other hand, no question but what, in some acute cases, the recovery is no less complete than that from pneumonia or typhoid fever. Those curious in tracing the heredity of insanity find that it is in those cases where there is marked hereditary tendency to insanity that abnormal peculiarities are apt to remain after recovery.

The number of inmates remaining June 30, 1888, 1,361, shows that there is a constant increase in population, and that, too, after it was hoped that the limit of increment in numbers had been reached. Each year thins the ranks of the veterans of the war. It was therefore thought that there would now be fewer admissions from the homes for the disabled volunteers. As a matter of fact, there are more. It was hoped that the authorities of the District of Columbia would provide for a certain imbecile class of their inmates within a home on the grounds of their almshouse, thereby reducing the number of our admissions from the District, but thus far, instead of a diminution, there has been a steady increase of that class. From present appearances an annual growth of 5 per cent. in population must be looked for if the same classes continue to be received under the present restrictions, and a further extension of accommodations will shortly be found necessary.

*Table of farm and garden products.*

Apricots, 12 bushels, at \$2.....	\$24.00
Apples, 31½ bushels, at 50 cents.....	15.75
Asparagus, 560 bunches, at 6 cents.....	33.60
Beans (Lima), 166½ bushels, at \$1.30.....	216.45
Beans (string), 368¼ bushels, at 75 cents.....	276.19
Beets, 3,698 bunches, at 2 cents.....	73.96
Beets, 172½ bushels, at 70 cents.....	120.75
Cabbage, 25,984 heads, at 8 cents.....	2,078.72
Cabbage sprouts, 217 barrels, at \$1.....	217.00
Cantaloupes, 9,306, at 8 cents.....	744.48
Carrots, 12½ bushels, at 50 cents.....	6.25
Celery, 10,810 bunches, at 5 cents.....	540.50
Cherries, 2,670 quarts, at 6 cents.....	160.20
Chickens, 405 pounds, at 12 cents.....	48.60
Corn (green ears), 1,137½ dozen, at 15 cents.....	170.58
Cucumbers, 414½ dozen, at 10 cents.....	41.47
Currants, 540 quarts, at 15 cents.....	81.00
Eggs, 1,024½ dozen, at 20 cents.....	204.85
Egg plants, 8,448, at 6 cents.....	506.88
Figs, 64 quarts, at 25 cents.....	16.00
Grapes, 13,500 pounds, at 5 cents.....	675.00
Honey, 240 pounds, at 20 cents.....	48.00
Kale, 465 barrels, at \$2.....	930.00
Leeks, 472 bunches, at 3 cents.....	14.16
Lettuce, 12,379 heads, at 3 cents.....	371.37
Milk, 67,297 gallons, at 25 cents.....	16,824.25
Onions, 4½ bushels, at 65.....	2.93
Onions, 7,372 bunches, at 2 cents.....	147.44
Onions (sets), 18 bushels, at \$4.....	72.00
Oyster plants, 1,196 bunches, at 3 cents.....	35.88
Parsnips, 158 bushels, at 75 cents.....	118.50
Pork, 15,757 pounds, at 7 cents.....	1,102.99
Pumpkins, 589, at 3 cents.....	17.67
Parsley, 6,802 bunches, at 2 cents.....	136.04
Peas, 227½ bushels, at \$1.....	227.50
Peaches, 7½ bushels, at \$2.....	15.50
Potatoes (Irish), 698 bushels, at 70 cents.....	488.60
Pears, 12 bushels, at \$1.50.....	18.00
Peppers, 12½ bushels, at \$1.....	12.50
Quinces, 12 bushels, at \$2.50.....	30.00
Rhubarb, 3,072 bunches, at 2 cents.....	61.44
Radishes, 10,377 bunches, at 2 cents.....	207.54
Strawberries, 1,653 quarts, at 12 cents.....	198.36
Squash (summer), 5,625, at 1 cent.....	56.25
Tomatoes, 1,572½ bushels, at 50 cents.....	786.25
Turnips, 1,522 bushels, at 45 cents.....	684.90
Sale of stock.....	410.00
Total.....	29,270.30

The following products consumed on the farm can not be considered a part of the profits:

Corn-fodder (green), 9 acres, at \$35.....	\$315.00
Corn-fodder (dry), 45 tons, at \$15.....	675.00
Grass (green), 13 acres, at \$35.....	455.00
Hay, 205 tons, at \$13.....	3,445.00
Kale, 309 barrels, at \$2.....	718.00
Rye (green), 12 acres, at \$35.....	420.00
Rye (dry), 100 tons, at \$13.....	1,300.00
Turnips, 354 bushels, at 45 cents.....	159.30
Total.....	7,487.30

The farm is now fairly productive and its returns certainly fully counterbalance the cost of cultivation. Its value, however, is in a direct ratio to the use made of it by the inmates without reference to the crops



produced. Their welfare is promoted by extensive lawns and groves and the facilities thereby afforded for outdoor life. As buildings and population of the hospital increase the grounds for the recreation and exercise of the inmates must of necessity encroach more and more on the agricultural lands. The growing herd of milch cows, rendered necessary by the greater number of feeble ones for whom a milk diet is indispensable, makes it imperative to provide more grazing land, and additional farming ground in the vicinity ought to be secured at once. These facts are fully set forth in the estimates for 1890.

The year just closed has not been without its problems respecting the care of the insane, problems on whose happy solution much of the success of treatment depends. The adaptation of means to ends in each department of a hospital is a matter of careful study; the fitness of the material for the work is a question that constantly meets us in the selection of personal attendants for the insane. As the subject of their wages has recently been made a matter for Congressional legislation, a brief discussion of some of the questions involved seems not inappropriate here. If we allow that drugs are not without their uses and that food and rest are most potent factors in the treatment of the acute forms of insanity, it still remains that in the majority of cases the personal care and management of the individual is of more moment than anything else that can be done for the insane. This is intrusted to the physician and attendant, the physician to direct and the attendant to carry out those directions. It follows that there should be the most perfect harmony between them and they should have many traits of character in common. A physician to the insane needs to have a thorough knowledge of the disease he undertakes to treat and the necessary energy to carry out that treatment. It goes without saying that he should be a person of the strictest integrity of character and one having the courage of his convictions. He ought not to be easily disconcerted or likely to lose his presence of mind. He should be a good judge of human nature, amiable in disposition, of exquisite tact and endowed with infinite patience. He needs to have that universality of education which will enable him to talk understandingly on ordinary topics and to wisely direct the varied matters coming within his jurisdiction in a hospital. It will readily be inferred that many of the qualities so requisite in the physician are no less so in the attendant. The superintendent should demand for the position of attendant on the insane personal integrity and good moral character. A lack here is fatal, no matter what special qualifications exist; without integrity of character there can be no guaranty against abuses of all kinds. Hardly less essential is a patient, kind disposition. The man or woman in constant contact with the insane needs to exercise a forbearance which is the natural outgrowth of a kindness of heart, to a degree that is demanded in no other calling. These qualifications, so vital to the making of a successful attendant on the insane, are not outgrowths of the higher education and refinements of life; they do not depend on wages, are not purchasable with money. They are in a great measure natural traits born in the individual and results of good home training, for which there is no better nursery than the honest farm-life of the country. Another important qualification of a good attendant is tact in the management of the individual case. Something of this is also natural, but in great part it is acquired by experience, with careful, intelligent study of the different phases of insanity and the varying moods of the patient under care. This is that special education which makes it so desirable to retain the services of those best attendants,



who, while losing no natural qualities of heart or head, have become expert in the trying situations that so tax the resources of all who have the care of the insane. It is here that the encouragement of higher wages comes in; an inducement to make the attendant's position not merely a stepping stone to something more lucrative outside the hospital, but to continue in the work and make that a calling. Liberal education, accomplishments, varied acquirements, pleasing manners that are in a measure the outgrowth of all these, things desirable in themselves that doubtless an increase of pay would bring, are, after all, not the essentials to a good attendant, and can in no way be considered an equivalent for a want of that tact, partly natural and partly acquired by experience, mentioned above.

The question of attendants' wages and what are the essentials of the service is not a new one. It has been and continues to be a serious one with all who have the responsible charge of institutions for the insane. Thus far this would seem to be the conclusion reached: That the attendant is the person most constantly in contact with the insane man, and hence a most important factor in his treatment; that abstractly a good attendant is worth all you can afford to pay him; that an indifferent or bad attendant is dear at any price; that practically the wages will vary somewhat with the locality, depending upon what is paid for service in other departments of labor; that wages should be high enough to command the services of young persons anxious to fit themselves for something higher than mere manual labor, and yet not so high as to give it the character of an official position to be sought on account of its salary. The hospital should afford to young men and women of this better class, leaving home to make their way in the world, as a reward for faithful service and devotion to the work, a permanent service dependent not upon influence but merit, the respect and consideration that goes with a position of such responsibility, together with a remuneration that while not large should still be enough to provide for all their reasonable wants and enable them to lay by something for the future. There should also be added to this the prospect of promotion and a reasonable increase of pay as time and experience render their services more valuable. This has been and, with such modifications as experience may show to be desirable, will probably continue to be the practical solution of the problem of attendants and their wages, and is as good as anything that is likely to be adopted.

#### ESTIMATES FOR THE FISCAL YEAR ENDING JUNE 30, 1890.

For a deficiency in support, for the fiscal year ending June 30, 1889, \$11,000.

The estimates for the support of the hospital are necessarily based on an assumed number of persons to be supported at a given per capita cost per annum. They are also required to be made up a year before the time when they are to be expended. The result is that it sometimes happens there is an increase in numbers beyond what was anticipated, and a deficiency necessarily results. The estimates were based on a probable average number of indigent patients for the year of 1,275, but the admissions of this class have been so numerous that the year opens with an excess of fully 50 of indigent insane persons above the estimate. At \$220 per capita cost per annum for 50 additional insane to be provided for out of the current appropriation the deficiency will be \$11,000, which sum is asked to be placed in the deficiency bill for 1889. Unless there should be a very marked increase in numbers during the



coming months it is thought that the sum asked will be sufficient for the needs of the hospital.

The estimates for expenditure for the fiscal year ending June 30, 1890, are:

For current expenses .....	\$302,500
For general repairs and improvements .....	15,000
For special repairs and improvements, viz:	
Lodge at lower entrance.....	1,200
Greenhouse .....	2,400
Alterations at stable, including poultry-house.....	1,300
Renewing heating apparatus west wing and lodges, including two new boilers.....	9,600
New boiler at engine-house.....	800
Steam fire engine and house.....	5,200
For additional land for grazing purposes.....	6,000

The estimate for current expenses is for support in the hospital, including clothing and treatment, of an estimated number of 1,375 indigent insane persons who by law are entitled to treatment here, viz: the insane of the Army and Navy, Marine Corps, Revenue-Cutter Service, National Home for the Disabled Volunteer Soldiers, the indigent insane of the District of Columbia, and the United States convict insane. The basis of estimate is an annual per capita cost of \$220. Congress has of late provided for a portion of this expenditure in the bill making appropriations for the District of Columbia. The ratio of appropriation continuing the same as that for the present fiscal year, the appropriation in the District bill for 1890 will be \$85,500, leaving the sum of \$217,000 to be appropriated in the sundry civil bill, of which it is asked that not exceeding \$1,500 may be used, as hitherto, in defraying the expense of the return of patients to their friends.

Fifteen thousand dollars is asked for general repairs and improvements, including the care of grounds. These grounds are among the most beautiful in the vicinity of Washington, and the buildings of the hospital form perhaps the most extensive group of government buildings in the District. When the destructive tendencies of so many of the inmates is taken into account, and the constant wear and tear to which the whole is subjected, it will be found that the sum named is but barely sufficient to maintain that true economy which keeps everything in the best working trim.

The request for \$1,200 to place a brick cottage at the lower entrance, which was passed over last year, is again renewed. This is necessary to the proper police of the place, so as to guard an entrance that must necessarily be left open through the day. Such gardener's cottage would be a tasteful addition to the grounds, and would obviate the necessity for a special watchman at that point. There would seem to be no reason why a gate-keeper should be retained at the main entrance if this opening, which is also on the main highway, is to be left without protection. The complete provision can be made for the moderate estimate named.

The little wooden frame, never worthy of the name of greenhouse, but which, with a few cold frames, has for years furnished us all the bedding plants that have made our lawns beautiful, is falling in decay and must be given up. If it could only be replaced at a moderate outlay with one of brick and iron we might have not alone the bedding plants which have helped to make our grounds rival the more pretentious ones of the Capitol, but also be able to brighten our new infirmary with winter carnations and roses. Shall we not have it? A flower to gladden some sick soul, who can say what it may not do?



In removing the swine and neat cattle from the old stables, near the hospital, to their new quarters on the out-farm, a considerable space has been left unoccupied and requiring repairs, which, with some changes that can readily be made, will convert them into comfortable quarters for the mules and some of the horses, which are now stabled in sheds and unsuitable places. Such necessary changes would further provide proper shelter for the farm-wagons, carts, and agricultural implements that must now be stored in sheds or left exposed to the weather. The farm work, the hauling from town, and the constant employment of two large carriages for the recreation of patients, together with the necessary business to and from town connected with the hospital, makes the St. Elizabeth stables a considerable item. Quite an important gain would be a suitable provision for poultry. At the present time, in the matter of supplies, the institution every year expends some thousands of dollars for poultry and eggs, over and above what are received from the farm. There would seem to be no good reason why, with the proper appliances, these could not be produced here. The refuse from the tables affords the very materials needed for their food, and it only requires the alchemy of proper skill and surroundings for raising fowls to convert what is now relatively valueless material into an abundance of chickens and eggs. One thousand three hundred dollars is asked to make these changes.

The hot-water apparatus on which the heating of the main hospital building and the lodges principally depends, has for years shown symptoms of failure, and it is uncertain what day they may break down entirely. The system of pipes has now been in constant use in winter for heating for more than a quarter of a century, is an old style at best, and an entire change of the whole is necessary. To replace with steam apparatus, removing the fires entirely from the building and complete the entire work, it is estimated that \$16,000 will be required. As the boilers of the west wing of the main building and of the lodges are the oldest, it is contemplated to introduce two new steam 100 horse-power boilers and change the apparatus of the lodges and west wing only during the fiscal year 1890. The estimate for this work is \$9,600.

The boiler at the engine-house which generates steam for driving the fan, planer, laundry machinery, and all purposes where power is needed is old and defective, requiring to be renewed. For this \$800 will be required and, in view of the possibly unsafe condition of the present boiler, it is asked that this appropriation be made immediately available.

Congress has been liberal in providing for the protection of this helpless class from danger from fire in past years. The result is that fire walls dividing the main building into sections have been erected, reservoirs constructed, fire extinguishers and fire-ladders provided, iron stairs built inside the building, fire-escapes placed on the outside, fire-pumps, with hydrants, stand-pipe, and hose set up, iron girders with brick arches placed under some of the corridor floors, so that to day, thanks to the liberality of Congress, the hospital is as safe from fire as any building, no more nearly fire-proof in its original construction than this, can be made without rebuilding.

It still remains that a general conflagration is one of those terrible things in a hospital for the insane which justifies any reasonable expenditure that will increase the protection against it. The nearest steam fire-engine of the Washington Fire Department is more than two miles away, so that while ponds, basins, and reservoirs of water have been and are still being established at different points convenient



to the hospital and other buildings about the grounds no fire-engine could be made available to use them until a fire had made such headway that it is doubtful if they would then be of any use. For the further protection of the barns and outlying dwellings as well as the hospital buildings themselves and their inmates, it is asked that an appropriation of \$5,200 be made for the purchase of an efficient steam fire-engine and to provide a suitable building for the same, together with hose-carriages and hose. The hospital force under the direction of the hospital engineer could by practice at regular times be trained in the use of this, as they are now in handling the hose, fire-ladders, etc., and a very efficient fire brigade organized on the grounds, that might also, in an emergency, render timely aid in the adjoining district. Since the United States is its own underwriter, an expenditure in this direction is practically a reduction of the rates of insurance by minimizing the danger of anything like a general conflagration.

The sum of \$6,000 is asked for the purchase of more land for agricultural purposes. The growth of the hospital, with the extension of its lawns and ornamental grounds, has seriously encroached on the arable land suitable for crops and grazing, so that with the increasing herd—over 200 head of neat cattle—it becomes necessary to secure an outlying tract of ground for pasturage. While it is desirable that this should adjoin the hospital grounds, it is not essential that it should do so. The advance in the price of real estate, while it has affected all land lying within the District limits, has not yet progressed so far in this quarter but that land for farming purposes can still be had at farm-land prices. A valuable tract of territory on the river front, well situated for gardening purposes, will come into possession of the United States as a part of the reclaimed grounds of this hospital when the policy of filling the Potomac flats is extended to those of the Eastern Branch, as will be found necessary before the sanitary results sought can be realized, but this is still too far distant to offer any relief in the present pressing necessity for pasturage. It should also be said that to many of the inmates there is no more pleasant or healthful occupation than herding and tending cattle. There is a pleasure to them in the familiar sight of farm animals, and with it comes the temptation to go out into the sunlight and the open air. What is given for the land will be more than offset by the sanitary gain to the inmates. As a rule, a hospital for the insane can not have control of too much adjoining land for the welfare and comfort of its inmates.

At a special meeting of the Board of Visitors, held on the 28th day of February, 1888, the following resolutions were unanimously adopted:

*Whereas*, In common with the whole community we have heard with profound regret of the death on the 24th of February, 1888, of the eminent philanthropist, William Wilson Coreoran, one of the members of the first Board of Visitors appointed to the Government Hospital for the Insane, who during his term of service gave valuable counsel, and throughout his life retained his interest in the hospital;

Therefore be it—

*Resolved*, That, as members of the Board, we desire to record our respect for his memory and our admiration for a life which, however prolonged, was still too short for our wishes, too short for all the good deeds to which his heart prompted him—a life that has made his name in this community a synonym for charity and philanthropy—a life that, embalmed in the grateful hearts of the thousands he has succored, and built into the very foundation stones of those great and abiding charities and those educational endowments which he has here established and sustained, ends not with its appointed bound of four score years and ten, but can never die.

*Resolved*, That this resolution be placed on the minutes of the Board and a copy of the same be transmitted to the relatives of the deceased.

Under the direction of Dr. Blackburn the pathological work of the hospital has been continued in the lines of original research, including photo-



graphic record and microscopic study. The second pathological supplement, a record of the observed post-mortem appearances of the kidneys in more than two hundred and fifty cases of insanity, is herewith submitted in appendix, in the hope that it may prove of value to other pathological students in this hitherto little-explored field.

The interesting summary of a year's work on the teeth of the insane, by Dr. Calver, dentist to the hospital, is also appended. It shows progress in a hitherto much-neglected field of hospital labor, in which it is believed valuable results may be attained.

The hospital has been in the receipt of books, papers, and cards for the inmates from friends who remember those whom others forget. They will please to accept our thanks without special mention. Friends have also aided us in our evening entertainment, and so shown their good-will and kindly interest.

We have also received during the past year from Dorothea L. Dix, by legacy, the mahogany desk on which, with her own hand, she wrote the first paragraph of the original draught of the act under which this hospital was created. Associated as it is with the inception of this great charity through her by whose personal efforts it was accomplished, this desk, with suitable inscription, has been placed for safe-keeping in the room at St. Elizabeth that is set apart for the use of the Board of Visitors. Above this desk hangs the engrossed copy of the resolutions of respect to her memory passed by the Association of Army Nurses, of whom she was the chief; this also having been lately presented to the hospital as being its most fitting resting-place. Thus the desk and the record, placed together here in that institution which was ever to her one of her homes, silently testifying to what she did for suffering humanity, will stand as a memorial of her.

There have been but few changes in the hospital force during the year. Dr. J. E. Kenney, the night medical officer, whose health had been for some time seriously impaired, resigned his position in June last. We take this opportunity to call attention to this night medical service, which among hospitals for the insane perhaps originated here. We have found it in a large institution like this well-nigh indispensable in its efficient supplement to the medical service of the regular staff and in the greater protection that it affords. We can confidently recommend it to other institutions.

The removal of Rev. W. S. Edwards, D. D., from Washington at the close of the year has deprived us of his very acceptable service as chaplain.

Among attendants there have been the usual changes; some leaving us after long and faithful service with the best wishes of all, some unfaithful servants, for whom the hospital had no use, leaving at once. But on the whole a difficult and trying service has been most faithfully performed, and to all who have aided in bringing the labors of the year to so successful a close our acknowledgments are due.

It is silent work for the most part that the hospital has to do, this ministry to souls in shadow, yet is its mission none the less worthy, and the care of those who have fallen in the nation's service, whether living or dead, is a sacred trust. We believe that the work is faithfully done, and that the institution was never in a more satisfactory condition than at the present time.

We are, very respectfully, your obedient servants,

J. M. TONER,

*President of the Board.*

W. W. GODDING,

*Secretary ex officio.*

Hon. WM. F. VILAS,

*Secretary of the Interior.*



GOVERNMENT HOSPITAL FOR THE INSANE,  
*Washington, D. C., August 27, 1888.*

SIR : In accordance with act of Congress approved June 4, 1880, requiring the Superintendent of the Government Hospital for the Insane to make a report to Congress annually of the detailed expenditures of the hospital for the preceding fiscal year, I have the honor to submit the following statement.

I am, sir, very respectfully, your obedient servant,

W. W. GODDING,  
*Superintendent.*

Hon. WM. F. VILAS,  
*Secretary of the Interior.*



[illegible]



*Classified expenditures, Government Hospital for the Insane, for fiscal year ending June 30, 1888—Continued.*

SUBSISTENCE.

[illegible]

[illegible]

SUBSISTENCE.

Date.	Furnished by—	On voucher num-bered—	Flour, meal, crack-ers, etc.	Ice.	Butter, cheese, and eggs.	Fresh meat.	Salt and smoked meats.	Fish and poultry.	Tea and coffee.	Sugar and molasses.	Lard.	Fruits and vegeta-bles.	Other groceries.	Grand total.
1888. June 30	R. A. Golden.....	865	.....	.....	.....	.....	.....	\$567.73	.....	.....	.....	.....	.....	.....
30	N. W. Burchell.....	878	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$20.30	.....
	Total .....	.....	\$11,995.79	\$3,748.06	\$17,336.15	\$26,702.93	\$11,147.13	8,166.07	\$7,585.72	\$8,416.90	\$560 52	\$6,638.60	8,470.35	\$110,768.22



Classified expenditures—Continued.

HOUSE FURNISHING, FUEL, LIGHTS, ETC.

Date.	Furnished by—	On voucher numbered—	Furniture, fixtures, etc.	Bedding.	Table and towel linen.	Utensils, crockery, etc.	Kitchen fittings.	Laundry supplies.	Carpets.	Hard coal.	Soft coal.	Wood.	Lights, oils, etc.	Making brooms.	Grand total.
1887.															
July 6	E. H. Stanton.....	1						\$10.00							
7	Wm. Beaman.....	2												\$2.50	
30	J. M. Wheatley.....	14													
30	L. W. Loomis.....	18				\$634.00				\$1,049.64	\$1,056.62				
30	Wm. Beaman.....	19												34.20	
30	Meixsel & Co.....	24												80.76	
30	Danl. Shanahan.....	26													
Aug. 27	Wm. Beaman.....	58													
29	C. B. Jennings.....	60												20.40	
29	George J. Johnson.....	73		\$390.92		255.79									
29	Thos. G. Hood.....	74			\$132.15										
29	Thurber, Whyland & Co.....	75						10.63							
31	John Wanamaker.....	76		124.72											
31	Melville Lindsay.....	87		27.60											
Sept. 30	Wm. Beaman.....	115												30.60	
30	Edwin Baltzley.....	120				4.25									
30	Dufur & Co.....	130	\$36.60												
30	Charles B. Jennings.....	134				142.87									
30	S. L. Hempstone.....	139			166.88										
30	W. B. Moses & Son.....	140	173.06												
30	J. C. Ergood & Co.....	141											33.33		
30	Poole & Brooke.....	142											15.00		
30	Frank Hume.....	143											2.60		
30	Lansburgh & Bro.....	144		48.77	21.86										
30	M. W. Beveridge.....	145				788.54									
30	James L. Barbour.....	151						92.75							
30	Hayward & Hutchinson.....	163	10.50												
30	Julius Lansburgh.....	169	74.91												
30	G. G. Cornwell & Son.....	172						581.26							
30	W. B. Williams.....	177	16.50												
30	Chas. H. Nicolai.....	181											183.34		

*Classified expenditures—Continued.*  
HOUSE FURNISHING, FUEL, LIGHTS, ETC.

Date.	Furnished by—	On voucher numbered—	Furniture, fixtures, etc.	Bedding.	Table and towel linen.	Utensils, crockery, etc.	Kitchen fittings.	Laundry supplies.	Carpets.	Hard coal.	Soft coal.	Wood.	Lights, oils, etc.	Making brooms.	Grand total.
1887.															
Sept. 30	T. B. Middleton	183										\$130. 90			
30	J. M. Wheatley	185									\$28. 84				
Oct. 31	J. M. Wheatley	226									6, 045. 00				
31	C. B. Jennings	229				\$143. 12									
31	G. A. Hamburger	231		\$272. 25											
31	Wm. Beaman	233												\$21. 60	
31	Louis E. Johnson	234		51. 00											
31	Singleton & Fletcher	260							\$138. 04						
Nov. 28	J. M. Wheatley	286													
28	Bramhall, Deane & Co	288									3, 333. 19				
30	C. E. Bigelow	292					\$31. 50								
30	Rosenblatt & Co	296					383. 00								
30	Alex. Milne	298	\$59. 50					\$78. 19							
30	Pettit & Dripps	302					30. 39								
30	S. L. Hempstone	303			\$218. 21										
10	J. M. Wheatley	320								\$1, 052. 06	11. 20		\$15. 00		
14	Poole & Brooke	327												18. 00	
14	William Beaman	328													
16	W. W. Tupper & Co	331					103. 79								
16	W. H. Harrover	332	23. 40												
16	T. B. Middleton	333													
17	L. W. Loomis	338				84. 00						38. 50			
23	T. B. Middleton	347													
31	J. C. Ergood & Co	355										134. 75			
31	Chas. H. Nicolai	361											34. 16		
31	H. Irving Stockwell	367											490. 05		
31	John Wanamaker	368		223. 53									36. 00		
31	Geo. J. Johnson	369		455. 05											
31	Francis Morandi & Son	371					185. 00								
31	Meixsel & Co	377												15. 50	
31	R. A. Robbins	380	163. 91												
31	Thos. G. Hood	382		1, 761. 00	109. 44			108. 44							

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Classified expenditures—Continued.  
HOUSE FURNISHING, FUEL, LIGHTS, ETC.

Date.	Furnished by—	On voucher numbered—	Furniture, fixtures, etc.	Bedding.	Table and towel linen.	Utensils, crockery, etc.]	Kitchen fittings.	Laundry supplies.	Carpets.	Hard coal.	Soft coal.	Wood.	Lights, oils, etc.	Making brooms.	Grand total.
1888.															
June 30	John Depue.....	754	\$7.00									\$57.75			
30	T. B. Middleton.....	761													
30	Chas. H. Nicolai.....	766											\$368.87		
30	Chas. B. Jennings.....	768				\$171.23									
30	Rosenblatt & Co.....	771						\$135.09							
30	John Wanamaker.....	775							\$100.00						
30	Meixsel & Co.....	779									\$14.00			\$34.50	
30	J. M. Wheatley.....	796													
30	W. H. Harrover.....	798	18.99												
30	Hayward & Hutchinson.....	810					\$7.23								
30	Poole & Brooke.....	818													
30	G. G. Cornwell & Son.....	821						1,084.03					20.25		
30	Louis A. Dieter.....	824	5.55											16.25	
30	Edward Hurlburt.....	826						312.75							
6	J. T. B. Suit.....	134		\$18.40											
21	J. Hodge.....	135		6.40											
30	R. A. Robbins.....	136		698.00		36.25									
30	John Wanamaker.....	137		219.37											
30	Thos. G. Hood.....	138	44.53		\$155.20										
30	Geo. J. Johnson.....	139		323.14											
30	C. A. Wissing.....	141		220.00											
30	Robt. Leitch & Sons.....	142				681.60									
30	James L. Barbour.....	840						25.65							
30	M. G. Copeland & Co.....	842	188.00												
30	Louis E. Johnson.....	851		118.80											
30	Washington Welshbach Incan- descent Gas-Light Company.	853	2.75												
30	American Multiple Fabric Company.....	854						17.78							
30	M. Silverberg & Co.....	861	76.50												
30	Lansburgh & Bro.....	862			10.50										
30	Pettit & Dripps.....	870					32.00								



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Classified expenditures—Continued.  
DRY GOODS AND CLOTHING, BOOKS, STATIONERY, AND MISCELLANEOUS.

Date.	Furnished by—	On voucher numbered—	Boots, shoes, and slippers.	New clothing.	Clothing material.	Hats.	Notions.	Books and periodicals.	Stationery and postage.	Freight and hauling.	Incidental work, etc.	Advertising.	Electrical instruments.	Photographic instruments, etc.	Grand total.
1887.															
July 8	R. C. Jones	3						\$6.00		\$31.88					
30	Geo. W. Knox	11								4.94			\$100.00		
30	W. H. Ijams	13										\$3.75			
30	Chesapeake and Potomac Telephone Co	15										4.50			
30	W. H. Pope	93										5.52			
30	Edw. Fletcher	94										5.55			
30	F. B. Noyes	95										5.36			
30	E. W. Fox	96										2.83			
30	A. S. Abell & Co	97										3.60			
30	T. G. Morrow	98										5.00			
30	Lee Crandall	7										7.03			
30	Rufus H. Darby	8										8.00			
30	E. W. Fox	9										6.75			
30	Hallet Kilbourn	10										6.12			
30	Edward T. Fletcher	11													
30	Thos. B. Kalbfus	12												\$1.50	
Aug. 4	V. G. Fischer	43									\$0.50				
20	Julius Baumgarten	52								.65					
31	Adams Express Company	62								21.85					
31	Geo. W. Knox	63								.50					
31	Baltimore and Ohio Express	64								.25					
31	Baltimore and Ohio R. R. Company	65													
31	Washington Post	67						6.00							
31	Geo. J. Johnson	73		\$2.25	\$665.00										
31	Thos. G. Hood	74			358.20										
31	John Wanamaker	76			347.21		\$4.46								
31	Samuel Bieber	78		1.50	191.87	\$67.50									
31	Auerbach & Bro	85					51.00								
31	Mellville Lindsay	87					5.37								
31	Edmund Hudson	22										2.91			
Sept. 7	Geo. T. Howard	97									6.00				



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Classified expenditures—Continued.  
DRY GOODS AND CLOTHING, BOOKS, STATIONERY, AND MISCELLANEOUS.

Date.	Furnished by—	On voucher numbered—	Boots, shoes, and slippers.	New clothing.	Clothing material.	Hats.	Notions.	Books and periodicals.	Stationery and postage.	Freight and hauling.	Incidental work, etc.	Advertising.	Electrical instruments.	Photographic instruments, etc.	Grand total.
1887.															
Dec. 31	C. C. Fulton & Co	375						\$15.12							
31	Thos. G. Hood	382			\$704.55		\$77.26								
31	New York Graphic	390										\$9.60			
1888.															
Jan. 14	John Keys, jr.	403						5.00							
18	Baltimore and Potomac R. R. Co.	405								\$0.50					
31	Adams Express Company	418								5.80					
31	Geo. W. Knox	419								12.17					
31	Baltimore and Ohio Express	420								.25					
31	James J. Chapman	426							\$41.00						
31	M. Silverberg & Co	427					66.17								
31	Johnson & Luttrell	429					36.00								
31	W. H. Lowdermilk & Co.	430						25.00							
31	Melville Lindsay	432					23.94								
31	S. F. Ware	436					7.50								
31	E. Morrison	444							30.81						
31	Auerbach & Bro	446					183.50								
31	Robert Cohen	457	\$880.40												
11	Baltimore and Ohio R. R. Co.	465								5.12					
Feb. 10	Jas. V. Calver	470									\$15.00				
29	R. F. Wagner	487								19.95					
29	Geo. W. Knox	490								17.10					
29	Adams Express Company	491								1.60					
29	Baltimore and Potomac R. R. Co.	492								.56					
29	Lausburgh & Bro	496			218.76		716.13		16.05						
29	Baltimore and Ohio R. R. Co.	498								.77					
Mar. 28	The Daily Post	533						6.00							
31	A. H. Roffe & Co	540						165.80							
31	Washington City post-office	541							44.00						
31	John Wanamaker	545			102.30										
31	Department of the Interior	569							25.22						



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Classified expenditures—Continued.  
DRY GOODS AND CLOTHING, BOOKS, STATIONERY, AND MISCELLANEOUS—Continued.

Date.	Furnished by—	On voucher numbered—	Boots, shoes, and slippers.	New clothing.	Clothing material.	Hats.	Notions.	Books and periodicals.	Stationery and postage.	Freight and hauling.	Incidental work, etc.	Advertising.	Electrical instruments.	Photographic instruments, etc.	Grand total.
1888.															
June 30	New York Herald.....	844	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$24.75	.....	.....	.....
30	Evening Star Newspaper Company.....	845	.....	.....	.....	.....	.....	.....	.....	.....	.....	9.92	.....	.....	.....
30	T. G. Morrow.....	846	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.33	.....	.....	.....
30	New York Daily Bulletin.....	847	.....	.....	.....	.....	.....	.....	.....	.....	.....	11.00	.....	.....	.....
30	The Times Publishing Company.....	848	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.00	.....	.....	.....
30	Washington Sentinel.....	849	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.75	.....	.....	.....
30	Washington Post Publishing Company.....	850	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.50	.....	.....	.....
30	H. Hoffa.....	855	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$30.00	.....	.....
30	Saks & Co.....	858	.....	\$40.00	.....	\$5.00	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	Thos. Songster.....	859	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	Wm. Hahn & Co.....	860	\$288.00	.....	.....	.....	.....	\$1.00	.....	.....	.....	.....	.....	.....	.....
30	Lansburgh & Bro.....	862	.....	.....	\$39.69	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
30	Daily National Republican.....	866	.....	.....	.....	.....	\$166.56	.....	.....	.....	.....	.....	.....	.....	.....
30	The Hatchet.....	867	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.00	.....	.....	.....
30	E. G. Wheeler.....	869	23.28	.....	.....	.....	.....	.....	.....	.....	.....	2.44	.....	.....	.....
30	Thos. G. Hood.....	879	.....	.....	.....	.....	2.36	.....	.....	.....	.....	.....	.....	.....	.....
30	Fauth & Co.....	880	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$75.00	.....
	Total.....	.....	3,254.84	875.75	6,343.34	299.96	1,841.53	479.71	\$690.10	\$244.92	\$362.51	165.81	131.20	119.10	\$14,798.77



MEDICAL SUPPLIES—EXPENDED FOR AMUSEMENT OF PATIENTS, ETC.

Date.	Furnished by—	On voucher numbered—	Drugs, medicines, etc.	Alcoholic stimulants.	Instruments, etc.	Returning eloped patients.	Amusement of patients.	Sending to their homes.	Refunded board money.	Grand total.
1887.										
July 13	A. H. Witmer.....	4				\$49.83				
28	Wm. G. Dorsey.....	8				5.00				
30	James W. Simpson.....	10				5.00				
30	Browning & Middleton.....	27		\$120.63						
30	F. A. Butler.....	35						\$68.00		
Aug. 2	Geo. L. Coagy.....	36				2.50				
3	John Tillman.....	37				5.00				
6	G. W. Fitts.....	45	\$12.50							
13	John Owens.....	47				5.00				
15	Elmer Howard.....	48				5.00				
31	McKesson & Robbins.....	71	389.69							
31	Thurber, Whyland & Co.....	75		431.11						
31	Parke, Davis & Co.....	88	14.74							
31	Jas. E. Toner.....	93						53.50		
31	Emma Doeherer.....	94						5.50		
Sept. 9	James E. Johnson.....	99				5.00				
30	Frank Hume.....	143		12.25						
30	S. F. Ware.....	146	108.54							
30	James L. Barbour.....	151	40	105.05						
30	Z. D. Gilman.....	162	10.80							
30	G. G. Cornwall & Son.....	172		211.20						
30	E. E. White.....	178		93.15						
30	Charles Fischer.....	179			\$3.50					
30	A. C. Patterson.....	187					\$17.89			
30	A. C. Patterson.....	192						53.69		
30	W. H. Frane.....	193						10.00		
Oct. 1	A. H. Witmer.....	194					4.50			
3	John Owens.....	196				5.00				
3	Lincoln Green.....	197				5.00				
6	John Owens.....	198				5.00				
21	H. Hoffa.....	206			25.25					
22	A. H. Witmer.....	216					5.00			

Classified expenditures—Continued.  
MEDICAL SUPPLIES—EXPENDED FOR AMUSEMENT OF PATIENTS, ETC.

Date.	Furnished by—	On voucher numbered—	Drugs, medicines, etc.	Alcoholic stimulants.	Instruments, etc.	Returning eloped patients.	Amusement of patients.	Sending to their homes.	Refunded board money.	Grand total.
1887.										
Oct. 31	Parke, Davis & Co.	228	\$29.12							
31	Browning & Middleton	257		\$32.86						
31	Christopher R. Pettit	266						\$5.00		
Nov. 11	James McGirr	271				\$5.00				
14	Edmund Talbert	274				5.00				
21	Richard F. Wagner	281					\$9.70			
24	Miller & Jones	284					600.00			
29	A. C. Patterson	291						20.45		
30	Andrew Galooley	313						11.20		
Dec. 19	H. Wagner	340					15.00			
28	Chas. Truax & Co	348			\$15.00					
29	Bullock & Crenshaw	351			94.40					
30	William Anderson	352				5.00				
31	Jas. L. Barbour	363		15.00						
31	Clark Gapen	372			48.00					
31	Jas. W. Queen & Co	374					161.50			
31	McKesson & Robbins	381	343.89							
31	Parke, Davis & Co	383	29.22							
31	Frank Hume	387		24.50						
31	Browning & Middleton	388		65.88						
31	A. C. Patterson	389					18.40			
1888.										
Jan. 13	H. E. Monroe	401					15.00			
16	H. Wagner	404					9.00			
30	Geo. W. Huguely	414							\$4.29	
31	L. G. Spencer	417					13.50			
31	Edward F. Droop	431					9.05			
31	Chas. Fischer	433								
31	S. F. Ware	436	198.55		3.50					
31	G. G. Cornwell & Son	456		120.84						
Feb. 3	G. B. Walden	468					15.00			
10	Charles McKenzie	471				2.50				



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Classified expenditures—Continued.

MEDICAL SUPPLIES—EXPENDED FOR AMUSEMENT OF PATIENTS, ETC.—Continued.

Date.	Furnished by—	On voucher numbered—	Drugs, medicines, etc.	Alcoholic stimulants.	Instruments, etc.	Returning eloped pa- tients.	Amusement of patients.	Sending to their homes.	Refunded board money.	Grand total.
1888.										
June 29	T. G. Morrow	747					\$17.67			
30	A. Henri Hart	753			\$13.60					
30	Chas. C. Fulton & Co	767					15.35			
30	Parke, Davis & Co	769	\$17.85							
30	Chas. H. Phillips	772	8.50							
30	Gideon Sibley	780			3.00					
30	James W. Queen & Co.	781	15.50							
30	R. C. Woodcock	786	16.84							
30	McKesson & Robbins.	790	132.73							
30	Frank Hume	791		\$12.88						
30	Thurber, Whyland & Co.	792		117.17						
30	Z. D. Gilman.	800			12.25					
30	Jas. J. Chapman	802					10.00			
30	The Washington Post	803					14.82			
30	Lucbs & Bro	814					237.58			
30	Daniel Loughran	819					646.88			
30	G. G. Cornwell & Son	821		122.88						
30	A. C. Patterson	822					39.91			
30	Browning & Middleton	827		84.54						
27	J. C. Simpson	832						\$22.00		
30	Annie Bunby	833						4.35		
30	Wm. J. Zeb	838	14.00							
30	James L. Barbour	840		15.00						
30	H. Hoffa	855			24.00					
	Total		1,874.44	1,790.62	432.74	\$152.33	2,722.46	488.86	\$50.29	\$7,511.74



FARM, GARDEN, AND STABLE.

Date.	Furnished by—	On voucher numbered—	Feed.	Implements, horseshoes, etc., etc.	Plants and seeds.	Manures.	Live stock.	Harness and repairs.	Vehicles and repairs.	Hay and straw.	Incidental expenses.	Grand total.
1877.												
July 30	Wm. M. Galt & Co.	22	\$331.32									
30	Myers & Loving	23	138.60									
Aug. 26	John A. Fraser	56								\$21.00		
31	R. H. Owens	69							\$160.40			
31	Wm. M. Galt & Co.	80	229.60									
31	Myers & Loving	81	102.90									
Sept. 28	Paul Hizer & Sons	109			\$23.50							
30	Thos. Gray & Son	114		\$7.45	35.15							
30	E. F. White	119			11.73		\$350.00					
30	Thos. Dowling	122										
30	Myers & Loving	147	153.30									
30	P. H. Heiskell, jr., & Co.	148		24.45	1.00					429.47		
30	Jas. L. Barbour	151										
30	Wm. M. Galt & Co.	152	1,215.20					\$48.25				
30	Lutz & Bro.	154										
30	Charles Metzger	166					375.00					
30	John A. Baker	168		31.91	25.90				143.30			
30	John McDermott & Bro.	176										
Oct. 21	W. R. Turner	212					110.00					
31	George Dick	232				\$93.00						
31	John T. Price & Son	235							10.00			
31	Robt. H. Owens	238							264.75			
31	Frances M. Joyce	251							49.50			
31	Thos. Dowling	253			26.53							
31	Myers & Loving	256	100.80									
31	J. C. Simpson	295							175.00			
31	Wm. M. Galt & Co.	299	507.20									
31	Myers & Loving	300	157.50									
Nov. 30	John Saul	306			4.50							
Dec. 10	John S. Newton	321					200.00					
10	J. H. Mitchell	323										
15	Robt. H. Owens	329							88.45		\$8.25	

*Classified expenditures—Continued.*  
FARM, GARDEN, AND STABLE—Continued.

Date.	Furnished by—	On voucher numbered—	Feed.	Implements, etc.	Plants and seeds.	Manures.	Live stock.	Harness and repairs.	Vehicles and repairs.	Hay and straw.	Incidental expenses.	Grand total.
1887.												
Dec. 17	Wm. M. Galt & Co.	339	\$828. 80							\$523. 21		
31	Jas. L. Barbour	363										
1888.												
Jan. 26	Myers & Loving	409	100. 80									
26	W. J. Payne	416								1. 58		
26	Robt. H. Owens	421							\$51. 70			
26	Melville Lindsay	432		\$21. 60								
26	John McDermott & Bro.	434							137. 25			
26	John A. Baker	439		43. 10	\$6. 00	\$23. 50						
26	J. B. Kendall	447		7. 00				\$406. 00				
26	Lutz & Bro	448										
26	Allison Nailor, jr.	453				100. 00						
26	Myers & Loving	454	182. 55									
Feb. 2	W. J. Payne	466										
2	L. Redd	467								1. 65		
21	John H. Jones	476								13. 69		
28	R. H. Owens	485		12. 50					3. 70	14. 25		
29	Paul Hizer & Sons	488			8. 00							
29	T. W. Green	493										
29	James T. Hopkins	494					\$175. 00			31. 42		
29	John Simmons	495					350. 00					
29	William M. Galt & Co	500	707. 90									
Mar. 8	Thomas Gray & Son	514		3. 25				8. 25				
31	R. H. Owens	544		17. 15					35. 65			
31	James L. Barbour	567								556. 04		
31	William M. Galt & Co	570	982. 25									
31	J. Blake Kendall	573		17. 50								
31	Barber & Ross	580		39. 20								
31	Myers & Loving	583	184. 80									
31	Poole & Brooke	602						1. 80				
31	Frances M. Joyce	607							12. 25			
31	Lutz & Bro.	611						46. 00				



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## Classified expenditures—Continued.

## REPAIRS AND IMPROVEMENTS.

Date.	Furnished by—	On voucher num- bered—	Lumber, doors, etc.	Hardware, etc.	Engineers and plum- bers' supplies.	Paints, oils, glass, etc.	Roofing.	Iron work, etc.	Plastering.	Sundry small repairs.	Fire and other appa- ratus.	Masons' supplies.	Buildings, wharf, etc.	Grand total.
1887.														
July 30	Daniel Shanahan	26				\$47.62								
30	James H. McGill	28				173.04								
30	Robt. Leitch & Son	30			\$122.00									
31	McLaughlin & Davis	99											\$3,000.00	
31	W. G. Parks	100											110.00	
31	Clem. Smith	1							\$8.80					
31	Timothy Smith	2							57.75			\$20.25		
31	J. H. Aukward	3	\$117.60											
31	James H. McGill	4							56.96					
31	Robt. Leitch & Son	5			288.86									
Aug. 3	Thos. Reardon	38							5.00					
31	George Ryneal, jr.	82				232.76								
31	Daniel Shanahan	83				92.99								
31	James H. McGill	84				171.76								
31	S. S. Shedd	86			72.10									
31	Melville Lindsay	87			13.00									
31	John A. Smith	13							154.55					
31	T. B. Cross, jr.	14	45.80											
31	W. D. Campbell & Co.	15	95.48											
31	Jas. H. McGill	16							56.33					
31	Thos. W. Smith	17	51.27											
31	T. B. Cross, jr.	19	298.79											
31	Geo. G. Tyler	20	126.69											
31	McLaughlin & Davis	21												
31	W. G. Parks	23												
Sept. 30	Thos. Gray & Son	114							10.75				2,300.00	
30	Francis Miller	164			6.00								115.00	
30	Jas. H. McGill	174				49.76								
30	Thos. Somerville & Sons	180			16.10									
30	L. H. Schneider's Son	186		\$117.45										
30	T. B. Cross, jr.	24	288.54											
30	Willet & Libbey	25	475.33											
30	C. F. Keys	26						\$85.00						
30	Timothy Smith	27							22.00					



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Classified expenditures—Continued.

REPAIRS AND IMPROVEMENTS—Continued.

Date.	Furnished by—	On voucher num- bered—	Lumber, doors, etc.	Hardware, etc.	Engineers and plumb- ers' supplies.	Paints, oils, glass, etc.	Roofing.	Iron work, etc.	Plastering.	Sundry small repairs.	Fire and other appa- ratus.	Masons' supplies.	Buildings, wharf, etc.	Grand total.
1887. Dec 31	McLaughlin & Davis.....	83											\$250.00	
1888. Jan. 5	D. E. Haines .....	397							\$2.60					
31	Saml. S. Shedd .....	425			\$58.20									
31	Melville Lindsay.....	432			45.18									
31	George Ryneal, jr.....	437				\$228.35								
31	Robt. Boyd .....	451			15.29									
31	Danl. Shanahan .....	460				115.43								
31	McLaughlin & Davis.....	84												
31	T. B. Cross, jr.....	85	\$800.77										1,000.00	
31	W. D. Campbell & Co.....	86	304.45											
31	Robt. Leitch & Sons.....	87			346.78									
31	W. D. Campbell & Co.....	89	322.71											
Feb. 29	E. G. Wheeler.....	502		\$614.57										
29	L. H. Schneider's Son .....	504		375.15										
18	Thos. W. Smith.....	92	41.00										425.00	
29	McLaughlin & Davis.....	93											7.56	
29	Baltimore Herald .....	95												
29	Thomas W. Smith .....	96	86.13											
29	E. G. Wheeler.....	97		19.18										
29	L. H. Schneider's Son .....	98		103.56										
Mar. 14	J. H. Aukward.....	519		2.00										
27	Jas. H. McGill .....	532				2.89			26.52					
31	C. E. Bigelow .....	551			645.40									
31	James H. Northup .....	558												
31	Morris, Tasker & Co.....	564		6.25		3.75								
31	Geo. Ryneal, jr.....	577				104.75								
31	Daniel Shanahan .....	590				56.17								
31	Melville Lindsay .....	593												
31	Thos. Somerville & Sons.....	619			50.60									
10	Timothy Smith .....	100							11.10					
19	Wm. J. Ferguson .....	101												
28	Robert Leitch & Sons .....	102			33.00		\$15.30							





## Classified expenditures—Continued.

## SALARIES AND WAGES.

Date.	Furnished by—	On voucher numbered—	Superintendent, physicians, and general office.	Ward service.	Inside domestic department.	Engineer's department.	Farm and garden, hauling coal, drivers, etc.	Mechanics and helpers.	Making clothing.	Laundry.	Sunday service.	Grand total.
1887.												
July 16	Ellen Bowling	5							\$13.50			
23	Eliza Goodwin	6							13.50			
26	Jane Beavan	7							13.50			
31	Pay-roll—support	31	\$1,322.64	\$2,410.16								
31	do	32		706.05	\$872.45							
31	do	33			451.55		\$991.50			\$381.30		
31	do	34				\$503.42	945.97	\$735.70				
31	Pay-roll—buildings and grounds	6						371.32				
Aug. 3	Mattie A. Bruce	39							9.00			
4	Eliza Sweeney	40							13.50			
4	Bertie Grimes	41							13.50			
4	Annie Hannan	42							15.00			
5	H. M. McAndrews	44							11.20			
12	S. A. Woods	46							15.00			
19	Ellen Bowling	49							13.50			
19	M. V. Powell	50							13.50			
19	Mary Cator	51							11.52			
23	Maggie O'Leary	53							13.50			
25	Eliza Goodwin	54							13.50			
26	Jane Beavan	55							13.50			
29	Bertie Grimes	59							18.00			
31	Pay-roll—support	89	1,304.64	2,305.18								
31	do	90			699.02							
31	do	91			467.16		991.50			395.41		
31	do	92				555.33	1,063.12	752.50				
31	Pay-roll—buildings and grounds	18						570.05				
Sept. 7	M. McInturf	98							13.50			
9	Lena M. Cross	100							8.16			
10	H. M. McAndrews	101							11.52			
10	S. A. Woods	102							15.00			
22	Annie Hannan	106							15.00			
27	Jane Beavan	107							14.75			



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Classified expenditures—Continued.  
SALARIES AND WAGES—Continued.

Date.	Furnished by—	On voucher numbered—	Superintendent, physicians, and general office.	Ward service.	Inside domestic department.	Farm and garden, hauling coal, drivers, etc.	Mechanics and helpers.	Making clothing.	Laundry.	Sunday service.	Grand total.
1887.											
Nov. 30	Pay-roll—support	309	\$1,403.30	\$2,399.25							
30	do	310		892.03							
30	do	311			\$1,151.33				\$369.50		
30	do	312				\$1,732.82	\$777.17				
30	Pay-roll—buildings and grounds	60			\$52.16		196.25				
30	do	66					34.70				
30	do	67					855.05				
Dec. 2	L. A. McKenney	314						\$9.00			
2	Lizzie Langley	315						20.00			
3	Ellen Bowling	316						18.00			
10	Etta Harrison	322						17.25			
15	Elizabeth Sweeney	330						13.50			
16	Jane Beavan	334						18.00			
17	Lena M. Cross	335						17.00			
21	Maggie O Leary	341						10.00			
21	H. McAndrews	342						6.00			
21	Eliza Goodwin	343						9.00			
21	Pasquale Serpico	344						18.00			
21	Lizzie Langley	345						10.50			
22	Jennie Padgett	346						9.00			
29	Ellen Bowling	250						18.00			
31	Matilda McInturff	353						10.20			
31	Pay-roll—support	392	1,387.06	2,395.44							
31	do	393		868.35	698.50						
31	do	394			456.69				367.89		
31	do	395				976.05	613.97				
31	do	73				546.27	251.50				
31	do	76					198.02				
31	do	82					1,160.19				
1888.											
Jan. 11	M. A. Dodge	399						13.50			
12	Eliza Goodwin	400						13.50			



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Classified expenditures—Continued.

SALARIES AND WAGES—Continued.

Date.	Furnished by—	On voucher numbered—	Superintendent, physi- cians, and general of- fice.	Ward service.	Inside domestic depart- ment.	Engineer's department.	Farm and garden, haul- ing coal, drivers, etc.	Mechanics and helpers.	Making clothing.	Laundry.	Sunday service.	Grand total.
1888.												
Mar. 31	Pay-roll—support.....	629			\$424.08		\$994.00			\$386.49		
31	do.....	630				\$618.34	661.88	\$736.13				
31	Pay-roll—buildings and grounds.....	105						377.52				
Apr. 6	L. A. McKenney.....	633							\$9.00			
6	Pasquale Serpico.....	634							20.00			
12	H. M. McAndrews.....	636							13.80			
13	Etta Harrison.....	638							13.63			
13	Jane Jardine.....	639							12.00			
13	Fannie E. Bonini.....	640							15.00			
14	C. V. Watts.....	642							13.50			
19	Maggie O'Leary.....	643							18.00			
26	F. S. Tippet.....	649							12.00			
28	Lena M. Cross.....	653							13.50			
30	Ellen Bowling.....	656							20.00			
30	A. Wathen.....	657							15.00			
30	Jane Beavan.....	658							18.00			
30	Pay-roll—support.....	672	\$1,370.30	\$2,461.68								
30	do.....	673		1,032.91	728.50							
30	do.....	674			417.66		1,001.00	438.00		384.17		
30	do.....	675				671.83	994.57	721.67				
30	Pay-roll—buildings and grounds.....	118						94.18				
Apr. 30	do.....	120										
May 4	H. M. McAndrews.....	682							13.44			
5	Sarah A. Wood.....	683							15.00			
15	Pasquale Serpico.....	690							15.00			
19	M. C. Quaid.....	691							8.50			
23	Elizabeth Sweeney.....	694							15.00			
28	E. H. Stanton.....	696							11.25			
31	Jane Beavan.....	701							18.00			
31	L. M. Cross.....	702							17.50			
31	Maggie Wilkinson.....	703							27.00			
31	M. V. Powell.....	704							13.50			



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*Detailed statement of receipts and expenditures for the fiscal year ending June 30, 1888.*

### RECEIPTS.

Appropriation for support .....	\$199,868.00
Appropriation for District of Columbia .....	75,132.00
Appropriation for buildings and grounds .....	34,400.00
Appropriation for wharf .....	3,500.00
Miscellaneous receipts .....	16,337.59
Appropriation, deficiency .....	11,713.07
On hand, buildings and grounds .....	50,000.00
Total .....	<u>330,950.66</u>

### EXPENDITURES.

Subsistence :	
Flour, meal, and crackers .....	\$11,995.79
Ice .....	3,748.06
Butter, cheese, and eggs .....	17,336.15
Fresh meats .....	20,722.93
Salt and smoked meats .....	11,147.13
Fish and poultry .....	8,166.07
Tea and coffee .....	7,585.72
Sugar and molasses .....	8,416.90
Lard .....	560.52
Fruits and vegetables .....	6,638.60
Other groceries .....	8,470.35
	<u>110,768.22</u>
House furnishings, fuel, lights, etc :	
Furniture, fixtures, etc .....	2,651.56
Bedding .....	6,316.22
Table and towel linen .....	919.96
Utensils, crockery, etc .....	3,850.11
Kitchen fittings .....	1,264.31
Laundry supplies .....	4,089.57
Carpets .....	465.99
Hard coal .....	2,101.70
Soft coal .....	10,516.85
Wood .....	361.90
Lights, oils, etc .....	1,712.83
Making brooms .....	369.31
	<u>34,620.31</u>
Dry goods and clothing, books, stationery, and miscellaneous :	
Boots, shoes, and slippers .....	3,254.84
New clothing .....	875.75
Clothing material .....	6,343.34
Hats .....	289.96
Notions .....	1,841.53
Books and periodicals .....	479.71
Stationery and postage .....	690.10
Freight and hauling .....	244.92
Incidental work, etc .....	362.51
Advertising .....	165.81
Electrical instruments .....	131.20
Photographic instruments, etc .....	119.10
	<u>14,798.77</u>
Medical supplies; expended for amusement of patients, etc. :	
Drugs, medicines, etc .....	1,874.44
Alcoholic stimulants .....	1,790.62
Instruments, etc .....	432.74
Returning eloped patients .....	152.33
Amusement of patients .....	2,722.46
Sending to their homes .....	488.86
Refunded board money .....	50.29
	<u>7,511.74</u>



## Farm, garden, and stable :

Feed .....	7,511.95
Implements, horseshoes, etc .....	590.83
Plants and seeds .....	523.80
Manures .....	449.70
Live-stock .....	1,710.00
Harness and repairs .....	640.50
Vehicles and repairs .....	1,584.25
Hay and straw .....	2,017.75
Incidental expenses .....	27.40

15,056.18

## Repairs and improvements :

Lumber, doors, etc .....	6,010.60
Hardware, etc .....	1,901.47
Engineers' and plumbers' supplies .....	4,020.19
Paints, oils, glass, etc .....	2,172.30
Roofing .....	81.95
Iron work, etc .....	491.79
Plastering .....	1,173.80
Sundry small repairs .....	72.65
Fire and other apparatus .....	22.85
Masons' supplies .....	964.26
Buildings, wharf, etc .....	38,007.21

54,919.07

## Salaries and wages :

Superintendent, physicians, and general office .....	16,589.16
Ward service .....	39,875.79
Inside domestic department .....	14,099.99
Engineers' department .....	7,642.42
Farm and garden, hauling coal, etc .....	21,794.85
Mechanics and helpers .....	20,441.71
Making clothing .....	1,833.90
Laundry .....	4,634.95
Sunday service .....	500.00

127,412.77

## Covered into United States Treasury on buildings and grounds .....

.1

## On hand, buildings and grounds .....

23,611.98

## On hand, deficiency .....

2,251.61

## Total .....

390,950.66

*Itemized receipts.*

1887.

July	1.	Cash received for board of S. C. Borrows.....	\$130.00
	1.	Cash received for board and special attendance of Edw. Burchell.....	211.00
	1.	Cash received for board of William H. Hindes .....	65.00
	5.	Cash received for board of E. B. Wadsworth.....	28.00
	8.	Cash received for board of F. M. Latham .....	10.00
	8.	Cash received for board of E. A. Bradley.....	20.00
	9.	Cash received for board of Sarah H. Johnson .....	92.00
	11.	Cash received for board of J. Solger .....	20.00
	14.	Cash received for board of Soldiers' Home patients.....	419.28
	14.	Cash received for board of Marine Hospital patients .....	794.57
	18.	Cash received for board of M. F. Toulson .....	40.00
	21.	Cash received for board of C. Potter .....	65.00
	28.	Cash received for board of M. A. Gilleland .....	65.00
	28.	Cash received for board of W. H. Zepp .....	182.00
	28.	Cash received for board of C. K. Yancey .....	91.00
	30.	Cash received for board of R. Barnett.....	121.00
	30.	Cash received for board of H. Beuchlers .....	130.00
	30.	Cash received for sale of stock, etc .....	72.85
Aug.	1.	Cash received for board of John T. Moncrief .....	65.00
	2.	Cash received for board of John Weidman.....	91.00
	4.	Cash received for board of William Griffith.....	195.00
	5.	Cash received for board of E. B. Wadsworth .....	28.00
	5.	Cash received for special attendance on Rollin Perkins .....	75.00
	6.	Cash received for board of R. Nicholas.....	65.00
	14.	Cash received for board of Bryan Hall.....	65.00
	15.	Cash received for board of Sarah E. Cox .....	33.57
	16.	Cash received for board of E. A. Bradley.....	20.00
	19.	Cash received for board of Chu-e rah-rah-he-kah .....	188.00
	24.	Cash received for board of M. F. Toulson .....	55.00
	31.	Cash received for sale of stock, etc.....	35.93
Sept.	14.	Cash received for board of E. A. Bradley.....	20.00
	16.	Cash received for board of E. B. Wadsworth.....	28.00
	17.	Cash received for board of Jennie M. Lowell.....	91.00
	24.	Cash received for board of Adolph Berger.....	65.00
	27.	Cash received for board of W. H. Hindes.....	65.00
	29.	Cash received for board of S. H. Johnson.....	90.00
	30.	Cash received for board of Mary De Caindry .....	91.00
	30.	Cash received for board and special attendance on Edw. Burchell.....	211.00
	30.	Cash received for sale of stock, etc.....	60.58
Oct.	1.	Cash received for board of S. C. Borrows.....	130.00
	3.	Cash received for board of M. F. Toulson.....	65.00
	3.	Cash received for board of W. Webster.....	377.00
	4.	Cash received for board of Sarah R. Cox .....	65.00
	5.	Cash received for board of Soldiers' Home patients.....	522.86
	5.	Cash received for board of M. A. Gilleland .....	65.00
	5.	Cash received for board of William Griffith.....	65.00
	6.	Cash received for board of H. Beuchlers .....	130.00
	7.	Cash received for special attendance on Rollin Perkins.....	75.00
	7.	Cash received for board of Bryan Hall.....	65.00
	10.	Cash received for board of E. B. Wadsworth.....	28.00
	12.	Cash received for board of E. A. Bradley.....	20.00
	14.	Cash received for board of C. Potter.....	65.00
	17.	Cash received for board of John Menekime .....	10.00
	17.	Cash received for board of J. T. Moncrief.....	65.00
	22.	Cash received for board of John C. Rives .....	78.00
	24.	Cash received for board of M. E. Cazenove.....	156.00
	26.	Cash received for board of John Weidman .....	91.00
	29.	Cash received for board of E. B. Wadsworth .....	28.00
	31.	Cash received for board of C. K. Yancey .....	91.00
	31.	Cash received for board of Marine Hospital patients .....	857.57
	31.	Cash received for sale of stock, etc .....	67.37
Nov.	5.	Cash received for board of Julius Solger.....	15.00
	9.	Cash received for board of E. A. Bradley .....	20.00
	23.	Cash received for board of J. R. Menekime.....	10.00
	30.	Cash received for sale of stock, etc .....	86.56
Dec.	1.	Cash received for board of F. W. Yager .....	85.00
	7.	Cash received for board of E. A. Bradley.....	20.00
	8.	Cash received for board of E. B. Wadsworth.....	28.00



1887.

Dec.	12.	Cash received for board of Martha Herman .....	\$20.00
	19.	Cash received for board of R. Nicolas .....	65.00
	19.	Cash received for board of John J. White .....	35.71
	21.	Cash received for board of Christian Potter .....	65.00
	23.	Cash received for board of W. H. Zepp .....	91.00
	26.	Cash received for board of W. H. Hindes .....	65.00
	26.	Cash received for board of Jennie C. Lowell .....	91.00
	30.	Cash received for board of Adolph Berger .....	65.00
	30.	Cash received for board of Julius Solger .....	15.00
	31.	Cash received for board of S. E. Cox .....	65.00
	31.	Cash received for sale of stock, etc. ....	36.55

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Jan.	3.	Cash received for board and special attendance of Edw. Burchell .....	211.00
	3.	Cash received for board of Mary De Caindry .....	91.00
	3.	Cash received for board of E. A. Bradley .....	20.00
	3.	Cash received for board of S. H. Johnson .....	91.00
	6.	Cash received for board of Marine Hospital patients .....	975.21
	6.	Cash received for board of M. A. Gilleland .....	65.00
	7.	Cash received for board of United States Soldiers' Home patients .....	579.28
	7.	Cash received for board of E. B. Wadsworth .....	28.00
	7.	Cash received for board of H. Beuchlers .....	130.00
	7.	Cash received for board of B. Hall .....	65.00
	7.	Cash received for board of Martha Herman .....	20.00
	7.	Cash received for board of R. Perkins .....	75.00
	10.	Cash received for board of John Moncrief .....	65.00
	11.	Cash received for board of M. E. Cazenove .....	156.00
	11.	Cash received for board of John Menekune .....	20.00
	13.	Cash received for board of Edwin Morsell .....	40.00
	14.	Cash received for board of William Barrett .....	25.00
	23.	Cash received for board of C. K. Yancey .....	91.00
	25.	Cash received for board of Chu-e-rah-rah-he-kah .....	91.00
	27.	Cash received for board of E. B. Wadsworth .....	28.00
	28.	Cash received for board of John C. Rives .....	30.00
	31.	Cash received for board of John Weidman .....	91.00
	31.	Cash received for sale of stock, etc. ....	54.02
Feb.	3.	Cash received for board of E. A. Bradley .....	20.00
	17.	Cash received for board of F. W. Yager .....	91.00
	20.	Cash received for board of Martha Herman .....	20.00
	21.	Cash received for board of M. F. Toulson .....	5.71
	22.	Cash received for board of Jennie Lowell .....	91.00
	29.	Cash received for board of E. A. Bradley .....	20.00
	29.	Cash received for board of E. B. Wadsworth .....	28.00
	29.	Cash received for sale of stock, etc. ....	48.93
Mar.	3.	Cash received for board of John C. Rives .....	30.00
	5.	Cash received for board of Chu-e-rah-rah-he-kah .....	91.00
	8.	Cash received for board of Walter F. Halleck .....	10.00
	14.	Cash received for board of Julius Solger .....	20.00
	14.	Cash received for board of Marine Hospital patients .....	22.00
	19.	Cash received for board of Martha Herman .....	20.00
	21.	Cash received for board of Otho Gartrell .....	120.00
	23.	Cash received for board of William H. Hindes .....	65.00
	28.	Cash received for board of E. A. Bradley .....	20.00
	30.	Cash received for board and special attendance of Edw. Burchell .....	211.00
	30.	Cash received for board of Emily Wadsworth .....	28.00
	30.	Cash received for board of Sarah R. Cox .....	65.00
	30.	Cash received for board of Christian Potter .....	65.00
	31.	Cash received for board of Mary De Caindry .....	91.00
	31.	Cash received for board of Adolph Berger .....	65.00
	31.	Cash received for board of S. H. Johnson .....	91.00
	31.	Cash received for board of S. C. Borrows .....	197.14
	31.	Cash received for board of United States Soldiers' Home patients .....	704.29
	31.	Cash received for board of J. C. Rives .....	30.00
	31.	Cash received for board of M. A. Gilleland .....	65.00
	31.	Cash received for special attendance of Rollin Perkins .....	75.00
	31.	Cash received for sale of stock, etc. ....	190.86
Apr.	6.	Cash received for board of H. Beuchlers .....	130.00
	9.	Cash received for board of M. E. Cazenove .....	156.00
	18.	Cash received for board of Martha Herman .....	20.00
	18.	Cash received for board of Ernest Thomas .....	10.00

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Apr.	20.	Cash received for board of John Weidman .....	\$91.00
	21.	Cash received for board of Marine Hospital patients.....	1,001.57
	24.	Cash received for board of C. K. Yancey.....	91.00
	24.	Cash received for board of Bryan Hall.....	65.00
	25.	Cash received for board of John T. Moncrief.....	65.00
	25.	Cash received for board of Emily B. Wadsworth.....	28.00
	30.	Cash received for sale of stock, etc.....	18.68
May	2.	Cash received for board of J. C. Rives .....	30.00
	8.	Cash received for board of E. A. Bradley .....	20.00
	16.	Cash received for board of Chn-e-rah-rah-he-kah.....	91.00
	21.	Cash received for board of F. W. Yager.....	91.00
	23.	Cash received for board of Annie W. Young .....	20.00
	25.	Cash received for board of Emily B. Wadsworth.....	28.00
	28.	Cash received for board of Martha Herman.....	20.00
	31.	Cash received for board of William S. Abert .....	10.00
	31.	Cash received for board of E. A. Bradley.....	20.00
	31.	Cash received for sale of stock, etc.....	177.83
June	4.	Cash received for board of J. C. Rives.....	30.00
	8.	Cash received for board of Charles W. Atkinson.....	30.00
	8.	Cash received for board of M. E. Cazenove.....	156.00
	18.	Cash received for board of Martha Herman .....	20.00
	21.	Cash received for board of James R. Tyler.....	15.00
	25.	Cash received for board of Emily Wadsworth.....	28.00
	30.	Cash received for sale of stock, etc .....	40.89
		Cash deposited on account of disallowance.....	.78
Total.....			16,337.59



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PATHOLOGICAL SUPPLEMENT

TO THE

THIRTY-THIRD ANNUAL REPORT

OF THE

GOVERNMENT HOSPITAL FOR THE INSANE.

( APPENDICES A AND B. )

1888.

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## APPENDIX A.

Table showing the post-mortem appearances of the kidneys in two hundred and sixty-three physical

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
1	54	Soldier.....	United States.....	Chronic dementia .....	3	3
2	25	Teamster .....	Scotland .....	Acute melancholia .....	5	5½
3	58	Soldier.....	Ireland .....	Chronic dementia .....	4	4
4	53	....do .....	Germany .....	....do .....	4	4
5	60	Plasterer .....	United States (colored).	Acute mania ...	7½	7½
6	77	Carpenter .....	....do .....	Chronic epileptic mania....	5½	5½
7	38	Sailor.....	United States.....	Chronic dementia .....	7	8½
8	30	....do .....	Norway .....	Paresis.....	6	5½
9	38½	Soldier.....	France .....	....do .....	4½	6½
10	40	Engincer .....	United States.....	Chronic dementia .....	4	4
11	51	Soldier.....	Ireland .....	....do .....	3½	3½
12	38	....do .....	United States .....	Chronic mania .....	4	4
13	28	....do .....	England .....	Chronic melancholia .....	5½	5
14	58	Domestic (female) ..	United States (colored).	Senile dementia .....	3¾	5
15	55	Shoemaker .....	Germany .....	Chronic mania.....	6	6
16	45	Laborer .....	United States (colored).	....do .....	4¾	6¾
17	36½	....do .....	United States.....	Chronic epileptic mania....	6½	6½



## APPENDIX A.

cases of mental disease, giving the age, occupation, nativity, mental disorder, and co-existing disease.

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
		<i>Hrs.</i>	
Surface granular; cortex thin, and dark red in color; capsule adherent. Connective tissue much increased; cells small, irregular, and granular. Tube-casts <i>in situ</i> . Organs normal .....	Pericarditis. Weight of heart, $14\frac{1}{2}$ ounces. Chronic pleuritic adhesions.	14	The symptoms of interstitial nephritis were prominent.
	Pulmonary tuberculosis. weight of heart normal.	31	
Surface irregular; capsule adherent. Intertubular tissue increased; cells granular, with indistinct nuclei. A few tube casts found.	Weight of heart, $10\frac{1}{2}$ ounces. Slight valvular disease.	19	
Slight adhesion of capsule; surface granular; small cysts in cortex; slight increase of connective tissue in limited areas. Cells much disintegrated.	Rupture of aneurism of thoracic aorta into pleural cavity. Weight of heart above normal.	8	Epithelium injured by faulty hardening.
Large, soft, and pale; surface smooth; capsule adhered slightly. Intertubular tissue increased; a few fibrous glomeruli; cells granular and disintegrated; many tubules filled with free cells.	Hæmatoma of dura mater; pleuritic adhesions; pleural and pericardial cavities dry. Weight of heart normal.	17	Change in cells probably <i>post-mortem</i> .
Normal to naked eye. Connective tissue slightly increased; epithelium ill-preserved.	Pleuritic adhesions. Weight of heart, $16\frac{1}{2}$ ounces. Slight valvular disease; atheroma.	22	Change in cells <i>post-mortem</i> .
Pale, swollen, soft; capsule easily removed; slight increase of connective tissue; epithelium swollen, and crumbled to a level with the nuclei.	Pneumonia; chronic pleuritic adhesions. Weight of heart normal. Cerebral softening.	36	Cloudy swelling.
Pale; superficial veins prominent; capsule not adherent. Epithelium slightly granular and disintegrated.	Pulmonary tuberculosis. Weight of heart, 8 ounces.	9	
Surface granular; capsule adherent. Increase of connective tissue; cells much broken down; granular matter in the tubules.	Blood-stained pleuritic and peritoneal effusion. Weight of heart, $9\frac{1}{2}$ ounces.	3	The condition of the cells due to accident.
Cortex pale; surface granular and capsule adherent. Connective tissue increased; cells distorted and ill-preserved.	Pleuritic adhesions; cedema of brain. Weight of heart, 8 ounces.	26	<i>Post-mortem</i> change in the epithelium.
Capsule adherent; surface granular; cortex thin; color dark red. Much increase of connective tissue and many fibrous glomeruli; cells small and distorted. Tube casts <i>in situ</i> .	Softening of brain; pleuritic adhesions; cystitis. Weight of heart, 12 ounces.	$2\frac{1}{2}$	
Cortex pale and thin; capsule adhered slightly. Connective tissue but little increased; epithelium fairly well preserved; a few tubules fatty.	Pulmonary tuberculosis; pleuritic adhesions; adhesive pericarditis. Weight of heart, 8 ounces.	5	
Calculus in pelvis of left; generally normal but much jaundiced. The cells contained bile pigment, and in some of the tubules were cast-like bodies composed of bile pigment.	Carcinoma of pancreas and liver; biliary calculi; great jaundice of all the tissues. Weight of heart, 8 ounces.	17	
Cortex thin; surface granular; capsule adherent; slight increase of intertubular tissue. Epithelium ill-preserved.	.....	21	
Cortex cystic; capsule not adherent; surface granular. Connective tissue increased; epithelium did not stain well, nuclei indistinct; pigment in vessels and glomeruli.	Pleuritic adhesions; tumor of root of lung; hard lymphoma; general melanæmia. Weight of heart, $12\frac{1}{2}$ ounces.	16	Slight <i>post-mortem</i> change in the cells.
Several small cysts in the right. Connective tissue slightly increased around the glomeruli; cells had crumbled somewhat at their inner margins.	Pleural cavities dry. Weight of heart, 10 ounces. Slight aortic valvular disease.	10	
Passive congestion, otherwise normal. Some <i>post-mortem</i> change of cells.	Pulmonary tuberculosis. Weight of heart, 17 ounces. Disease of valves; pericarditis, pleuritis, and peritonitis.	38	

Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
18	54	Huckster .....	United States (colored).	Acute mania .....	Ounces. 3 $\frac{3}{4}$	Ounces. 3 $\frac{1}{2}$
19	48	Soldier .....	United States.....	Chronic mania.....	5	5 $\frac{1}{2}$
20	37	Sailor.....,.....	Germany .....	Paresis .....	3 $\frac{1}{2}$	5
21	42 $\frac{1}{2}$	Druggist .....	do .....	Chronic epileptic mania.....	3 $\frac{1}{4}$	4
22	61	Soldier .....	do .....	Chronic mania.....	4 $\frac{1}{4}$	5
23	41	Laborer .....	United States (colored).	Paresis .....	4 $\frac{1}{2}$	4
24	63 $\frac{1}{2}$	Salesman .....	United States.....	Senile dementia .....	5 $\frac{3}{4}$	7
25	48	Laborer.....	United States (colored).	Paresis .....	4 $\frac{3}{4}$	4 $\frac{1}{2}$
26	58	do .....	Ireland .....	Chronic dementia .....	6	6 $\frac{1}{2}$
27	34 $\frac{1}{2}$	Clerk .....	United States.....	do .....	5	5
28	53	Cook .....	United States (colored).	Chronic mania.....	6	7
29	63	Laborer .....	Ireland .....	Chronic dementia .....		
30	40 $\frac{1}{2}$	Soldier .....	do .....	Paresis .....	5	4 $\frac{1}{2}$
31	44	Fireman.....	United States (colored).	Chronic dementia.....	3 $\frac{1}{4}$	3 $\frac{3}{4}$
32	39 $\frac{1}{2}$	Soldier .....	Germany .....	Paresis .....	6	6



*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
		Hrs.	
Surface smooth; capsule not adherent; superficial veins prominent. Very slight increase of connective tissue; cells normal; slight <i>post-mortem</i> change.	Pleuritic adhesions. Weight of heart, 8½ ounces.	25	Probably a case of congenitally small kidneys, as the appearances were nearly normal.
Surface irregular; capsule adherent. Some wedge-shaped processes of new-formed tissue extended inward from the capsule. Epithelium swollen and cloudy; tubules dilated.	Pneumonia; acute pleuritis; cerebral softening. Weight of heart, 12½ ounces. Slight valvular disease.	2	Cloudy swelling, due to the pneumonia.
Capsule thickened and adherent; cortex thin and cystic. Great increase of connective tissue, with atrophy of tubules and hyaline casts <i>in situ</i> ; more advanced in outer portion of cortex. Epithelium distorted and atrophied.	Pneumonia; pleuritic effusion. Weight of heart normal.	12	Interstitial change was very decided.
Cortex cystic and thin; capsule adherent. Connective tissue increased; epithelium in some tubules normal, in others granular and disintegrated.	Pulmonary tuberculosis with pleuritic adhesions. Weight of heart, 9 ounces.	9	
Surface granular; capsule not adherent. Slight increase of connective tissue. Some tubules contained normal cells, some uniformly filled with the granules of disintegrated epithelium; change was probably due in part to the pneumonia.	Pneumonia; chronic pleuritic adhesions. Weight of heart, 13½ ounces.	19	Cloudy swelling.
General appearance normal. A slight thickening of the Malpighian capsules. Some crumbling of inner portion of cells.	Death from asphyxia—food in larynx. Pleuritic adhesions; pulmonary apoplexies. Weight of heart, 14 ounces.	12	
Small cysts in cortex; surface granular; capsule adherent. Moderate increase of connective tissue, with numerous nuclei. Cells normal.	Softening of brain; chronic tuberculosis of lungs; pleuritic adhesions. Weight of heart, 11 ounces. Calcification of valves.	11	
Passive congestion, otherwise normal to naked eye. Slight <i>post-mortem</i> change in the epithelium.	Pleuritic adhesions; acute peritonitis. Weight of heart normal.	10	
Surface showed numerous scars or depressions to which the capsule adhered. The connective tissue was much increased at these places and the glandular elements atrophied. Large areas of unaffected tissue were found.	Cerebral softening, due to atheroma; pericarditis; slight valvular disease. Weight of heart, normal.	7	
Surface showed a few scars where the connective tissue was found to be increased; otherwise normal.	Weight of heart normal.	12	
Passive congestion; slight adhesion of capsule. Connective tissue normal; cells much disintegrated <i>post-mortem</i> .	Pleuritic adhesions. Weight of heart, 20¼ ounces. Slight valvular disease.	10	
Appearances normal to naked eye. No microscopical examination.	Peritonitis. Weight of heart normal.	24	
Pale; capsule easily separable. Cyst with white pulpy contents in left. Connective tissue normal; cells much disintegrated, leaving a layer of protoplasm on a level with the nuclei.	Weight of heart, 13½ ounces.	5	
Capsule left a thin layer adherent to cortex; superficial veins prominent. Connective tissue increased at points beneath the capsule. Cells showed some <i>post-mortem</i> change.	Pulmonary tuberculosis. Weight of heart, 9 ounces.	10	
Organs swollen; some congestion. Inner portion of cells much crumbled, otherwise the appearances were normal.	Pleuritic adhesions. Weight of heart, 13½ ounces.	17	

Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
33	71	Soldier.....	Ireland .....	Senile dementia.....	4 $\frac{1}{4}$	4 $\frac{1}{2}$
34	58	....do .....	United States (colored).	Chronic dementia .....	3 $\frac{3}{4}$	4 $\frac{1}{2}$
35	40	Soldier.....	Germany .....	Paresis.....	5 $\frac{3}{4}$	6 $\frac{1}{4}$
36	49	....do .....	United States....	Chronic dementia .....		
37	84	....do .....	England .....	Chronic dementia .....	5 $\frac{1}{2}$	7 $\frac{1}{2}$
38	60	Domestic (female) ..	United States (colored).	Senile dementia .....		
39	77	Sailor.....	Germany .....	....do .....	4 $\frac{1}{4}$	4 $\frac{1}{2}$
40	65	Soldier.....	....do .....	Chronic melancholia.....	4 $\frac{1}{4}$	4
41	44	....do .....	United States....	Chronic epileptic dementia...	5 $\frac{1}{4}$	6 $\frac{1}{2}$
42	66	Sailor.....	....do .....	Chronic dementia.....	4 $\frac{3}{4}$	6
43	43	Soldier.....	Ireland .....	....do .....	6 $\frac{1}{4}$	6 $\frac{1}{4}$
44	39	....do .....	United States....	Chronic epileptic mania.....	5 $\frac{1}{2}$	6
45	85	....do .....	Ireland .....	Senile dementia .....	4 $\frac{1}{2}$	2 $\frac{1}{2}$
46	40	....do .....	United States....	Chronic dementia .....	3 $\frac{3}{4}$	3 $\frac{1}{2}$
47	42	....do .....	England .....	....do .....	5 $\frac{3}{4}$	5 $\frac{1}{4}$
48	43	Domestic (female) ..	United States (colored).	Chronic mania.....	3 $\frac{3}{4}$	4 $\frac{1}{2}$
49	41	Clerk .....	United States....	Chronic dementia.....	4 $\frac{1}{2}$	5 $\frac{1}{2}$
50	46	Soldier.....	....do .....	....do .....	3 $\frac{1}{2}$	4 $\frac{1}{4}$



*Hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
		<i>Hrs.</i>	
Surface granular; capsule adherent. Decided increase of connective tissue; some glomeruli cystic, others fibrous. Epithelium atrophied in the shrunken areas, comparatively natural elsewhere.	Cerebral softening; acute pleuritis; bronchitis. Weight of heart, 13¾ ounces.	29	
Surface granular; capsule adherent; cortex thin and cystic. Connective tissue increased. Epithelium normal.	Cerebral softening; pleuritic adhesions. Weight of heart, 12½ ounces.	8	
Cortex pale; capsule easily separable. Superficial veins prominent. Some of the cells were granular and broken and did not stain well, otherwise the structure was normal.	Pleuritic adhesions on right side, acute pleuritis on left. Weight of heart, 10½ ounces.	12	
No microscopical examination was made, but the organs appeared normal.	Pleuritic adhesions. Weight of heart normal.	240	Body frozen in ice.
Small cysts in cortex; capsule adhered slightly. Marked increase of nucleated connective tissue; many glomeruli fibrous: tube casts <i>in situ</i> . Cells granular, fatty and the inner portion crumbled.	Pulmonary tuberculosis; chronic pleuritic adhesions; pericarditis; calcareous valves. Weight of heart, 11¼ ounces.	16	
The kidneys were not examined .....			
Capsule slightly adherent; cortex thin. Very slight connective-tissue increase beneath the capsule. Cells considerably disintegrated by <i>post-mortem</i> change.	Pneumonia; pleuritic adhesions. Trichinosis. Weight of heart, 12 ounces; slight valvular disease.	16	
Surface granular; veins prominent. Slight increase of connective tissue; some crumbling of inner portions of cells.	Pulmonary tuberculosis; chronic pleuritic adhesions. Weight of heart, 14 ounces.	6	
A few small cysts in cortex and some congestion. Slight <i>post-mortem</i> crumbling of cells.	Weight of heart, 17¼ ounces.	12	
The naked-eye appearances were normal, but the microscope showed some increase of connective tissue, fibrous glomeruli, and great disintegration of epithelium.	Pleuritic adhesions. Weight of heart, 11 ounces.	90	<i>Post-mortem</i> destruction of the epithelium.
General appearance normal. Tubules dilated and the epithelium swollen.	Pneumonia; pleuritic adhesions. Weight of heart, 9½ ounces.	8	Cloudy swelling.
Appearances normal. Epithelium very well preserved.	Chronic pericarditis, with some effusion. Weight of heart, 9½ ounces.	30	
Surface granular; capsule adherent; cortex was thin and cystic. Great increase of connective tissue; many fibrous glomeruli; tube casts <i>in situ</i> . Tubules atrophied; cells small and irregular.	Cerebral softening. Chronic pulmonary tuberculosis; pleuritic adhesions. Weight of heart, 12¾ ounces. Slight valvular disease.	20	
Cortex thin; capsule adherent. Very slight increase of connective tissue around a few glomeruli, which were fibrous. Epithelium normal.	Pulmonary tuberculosis; Chronic pleuritis; chronic pericarditis or "soldierspots." Weight of heart, 8 ounces.	18	
Surface roughened by removal of capsule, due to softening of the tissue. No appreciable increase of connective tissue. Epithelium much disintegrated.	Pleuritic adhesions; chronic bronchitis. Weight of heart, 13½ ounces.	19	<i>Post-mortem</i> change had softened the organs.
Surface granular; capsule easily separable. Some wedge-shaped processes of connective tissue extended inward from the capsule. Miliary tubercles were found in the cortex. Cells were somewhat disintegrated in a few of the tubules, in others normal.	Tuberculosis of lungs and secondary miliary tuberculosis of other organs. Weight of heart, 8¼ ounces.	8	
Cortex cystic and thin. No appreciable increase of connective tissue: cells were much disintegrated. The tubules were not enlarged.	Pneumonia; biliary calculi. Weight of heart, 12½ ounces.	11	
Appearances normal, confirmed by the microscope.	Pulmonary tuberculosis; pleuritic adhesions. Weight of heart, 10 ounces.	18	



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
51	70	Soldier .....	United States.....	Senile dementia.....	4½	5
52	63	Domestic (female) ..	United States (colored).	Chronic dementia.....	3¾	4½
53	41	Laborer.....	do .....	Acute mania .....	5½	5
54	73½	Soldier.....	United States.....	Chronic dementia.....	5½	.....
55	40	do .....	do .....	Chronic epileptic mania. ....	5½	5½
56	50	do .....	United States (colored.)	Paresis .....	6½	5¾
57	56	do .....	England .....	Chronic epileptic mania.....	4½	6
58	42	do .....	Norway .....	Chronic mania.....	3½	4
59	43	do .....	Scotland.....	Paresis .....	3¼	3¾
60	47	do .....	Germany .....	Chronic mania.....	7	5¾
61	46	do .....	United States (colored).	Chronic dementia.....	5	5½
62	30	Servant (female)....	United States (colored).	Chronic mania.....	5¼	4¾
63	38	Soldier .....	United States.....	do.....	4	4½
64	35½	do .....	Ireland .....	Chronic melancholia .....	5	5½
65	39	do .....	United States (colored).	Chronic epileptic dementia..	4	5½

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
The cortex rather thin, and the capsule adherent. Slight increase of intertubular tissue and a few obliterated glomeruli. The cells were much disintegrated and did not stain well.	Cerebral softening. Pleuritic adhesions; bronchitis; pericarditis with effusion. Weight of heart, 13½ ounces.	Hrs. 23	Condition of the cells, due to <i>post-mortem</i> change.
A few cysts in cortex; capsule easily separated. Wedge-shaped processes of connective tissue beneath the capsule, and a few fibrous glomeruli. Cells had crumbled very much, leaving a layer of protoplasm on a level with the nuclei.	Chronic cystitis; uterine leiomyoma. Weight of heart, 8½ ounces.	9	
Moderate passive congestion, otherwise normal. Epithelium was slightly broken at its inner margins; probably accidental.	Thrombosis of pulmonary artery; rupture of right auricle, incomplete. Weight of heart, 14½ ounces.	5	
The right was normal in external appearance; the left was converted into a mere sac by hydronephrosis. The cells of the right were almost completely disintegrated, due to neglect in hardening.	Pleuritic adhesions; chronic cystitis, caused by hypertrophy of middle lobe of prostate, which was also the cause of the hydronephrosis. Muscles filled with encysted trichinae. Weight of heart, 12½ ounces.	12	
Appearances normal. Epithelium injured by faulty hardening and <i>post-mortem</i> change.	Cerebral softening. Pleuritic adhesions; hemorrhagic pachymeningitis. Weight of heart, 11 ounces.	13	
Appearances normal, confirmed by the microscope.	Pleuritic adhesions. Weight of heart, 10½ ounces.	14	
Surface granular; capsule slightly adherent; cortex cystic. Slight excess of connective tissue. Epithelium well preserved.	Pleuritic adhesions. Weight of heart, 16½ ounces. Valvular disease of heart.	6	
Slight contraction of cortex and adhesion of capsule. A few wedge-shaped areas of connective tissue beneath the capsule. Epithelium was somewhat broken at the inner margins.	Rupture of aneurism of arch of aorta; chronic pneumonia. Weight of heart normal.	16	
Slight adhesion of capsule; cortex thin; ulceration of pelvis. No connective-tissue increase in the part examined. Epithelium normal.	Pleuritic adhesions, and pulmonary tuberculosis; biliary calculi. Weight of heart, 8½ ounces.	3	
Appearances normal, confirmed by microscopical examination.	Limited chronic pleuritic adhesions. Weight of heart, 12¾ ounces.	5	
Slight congestion; capsule easily separated. Cells coarsely granular, fatty, and much disintegrated.	Pleuritic adhesions. Hypertrophy and dilatation of heart; weight, 19¼ ounces. Cerebral softening.	6	
Appearances normal to naked eye. Cells were considerably crumbled, but had not been diseased.	Pulmonary tuberculosis; pleuritic adhesions. Weight of heart, 8½ ounces.	18	
General appearance normal, but the capsule was slightly adherent. Some small processes of connective tissue extended inward from the capsule; cells were ill-preserved.	Pulmonary tuberculosis; chronic pleuritic adhesions; tubercular enteritis. Weight of heart, 9½ ounces.	19	
Cortex pale; capsule easily removed; microscopical appearance normal.	Pulmonary tuberculosis; pleuritic adhesions; pericarditis, with effusion. Weight of heart, 7¾ ounces.	2	
Appearances normal except a few scars on the surface of the right. The epithelium had crumbled away to a level with the nuclei.	Pleuritic adhesions. Weight of heart, 8¾ ounces.	15	



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
66	77	Unknown (female) ..	Ireland .....	Chronic mania .....	4	3½
67	62	Soldier .....	United States .....	Chronic dementia .....	5	7¼
68	51	....do .....	Ireland .....	....do .....	3½	4½
69	44	....do .....	....do .....	Chronic melancholia .....	3	3½
70	39	....do .....	United States .....	Chronic mania .....	6	6
71	41	... do .....	Ireland .....	Chronic melancholia .....	5½	5½
72	43	....do .....	United States (colored).	Chronic epileptic mania ....	7	8
73	45	....do .....	United States .....	Chronic dementia .....	3¾	4½
74	55	....do .....	....do .....	Chronic mania .....	3¾	3¾
75	37	Marine .....	Ireland .....	Chronic dementia .....	3¾	4½
76	73	Soldier .....	Germany .....	....do .....	4½	4¾
77	33	Laborer .....	United States (colored).	Chronic epileptic dementia ..	5	5½
78	46	Soldier .....	Ireland .....	Chronic dementia .....	4½	5
79	48½	....do .....	Germany .....	Chronic mania .....	4½	4¾
80	61	Carpenter .....	....do .....	Acute mania .....	4½	4¾
81	45	Domestic (female) ..	United States (colored).	Chronic epileptic mania .....	3¾	4¾
82	41	Soldier .....	United States .....	Chronic dementia .....	4½	4¾

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
		Hrs.	
Surface granular; capsule easily removed. In most of the tubules the epithelium had disintegrated to a level with the nuclei, but in some the cells were intact.	Cerebral softening; pulmonary tuberculosis; pleuritis. Weight of heart normal.	8	Cloudy swelling and primary degeneration of the epithelium.
Cortex thin; capsule adherent; stellate veins distinct. Pelvic fat increased. The connective tissue was increased, and a few glomeruli obliterated. Cells cloudy and the nuclei indistinct. General appearance normal. The epithelium was well preserved.	Pleuritic adhesions; congestion of lungs. Weight of heart, 15½ ounces.	19	
Surface granular; cortex thin; capsule adherent. Tube casts found in some of the tubules. The inner portion of the cells had crumbled, leaving only the outer part intact. The tubules contained granular matter.	Pulmonary tuberculosis; pleuritic adhesion. Weight of heart, normal.	4	
The cortex was pale and showed numerous white points, which were found to be miliary tubercles. The cells were normal.	Pulmonary gangrene; pleuritic adhesions. Weight of heart, 7¼ ounces.	6	
Surface much scarred; capsule adherent. The connective tissue was much increased in the region of the scars, and the tubules and glomeruli were atrophied. The epithelium elsewhere was well preserved.	Pulmonary tuberculosis, with secondary miliary tubercles in other organs. Weight of heart, 11 ounces.	8	Interstitial nephritis.
Cortex pale. Microscopical appearances normal.	Pleuritic adhesions; ulceration of sigmoid flexure of colon. Weight of heart, 12 ounces.	10	
Cortex thin; capsule slightly adherent. Marked increase of connective tissue. The cells were compressed, narrow, granular, and the nuclei were invisible.	Peritonitis. Weight of heart, 13½ ounces.	10	
Surface granular; cortex thin; capsule adherent. Several small calculi in the pelvis of the right. The connective tissue greatly increased and richly nucleated; the epithelium was much disintegrated and some tube-casts were found. Many glomeruli were obliterated by fibrous change.	Pleuritic adhesions. Weight of heart, normal.	24	
Appearances normal, but the epithelium had undergone some <i>post-mortem</i> change.	Pleuritic adhesions; chronic pericarditis, with effusion. Weight of heart, 15 ounces. Slight valvular disease.	10	
Cortex thinner than usual, and showed scattered cysts. The connective tissue was slightly increased; the epithelium, normal.	Pleuritic adhesions. Weight of heart, 8½ ounces.	8	
Appearances normal to naked eye, but the microscope showed the intertubular tissue unusually distinct and the epithelium almost destroyed by decomposition.	Spindle-celled sarcoma of pia mater at base of brain; pleuritic adhesions; dilatation and hypertrophy of heart; weight, 14 ounces.	11	
A few cysts in the cortex; capsule easily separated. The epithelium was almost destroyed by accident during hardening process, but had probably been normal.	Weight of heart, 9½ ounces. Pleural effusion.	42	
Within the right was a round tumor three-fourths of an inch in diameter. It was found to be an adenoma. The epithelium was ill-preserved.	Pneumonia, with pleuritic adhesions. Weight of heart, 15 ounces. Cerebral softening.	3	
Some scars on the surface; capsule easily removed; connective tissue largely increased; some obliterated glomeruli; cells much disintegrated.	Pulmonary tuberculosis; chronic pleuritic adhesions. Weight of heart, 10½ ounces.	12	
Organs small, but normal in appearance; confirmed by the microscope.	Slight acute pleuritis. Weight of heart, 14 ounces. Cerebral softening.	12	
Slight adhesion of capsule; explained by the presence of small wedge-shaped processes of connective tissue beneath the capsule. The cells were somewhat broken and granular.	Pulmonary tuberculosis. Weight of heart, 6¼ ounces.	3	
	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 9 ounces.	16	



Table showing the post mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
83	64	Seamstress (female).	United States ....	Chronic mania .....	<i>Ounces.</i> 4 $\frac{1}{4}$	<i>Ounces.</i> 4 $\frac{1}{2}$
84	53	Soldier .....	Switzerland .....	Chronic dementia .....	4 $\frac{3}{4}$	5
85	57 $\frac{1}{2}$	Fireman, U. S. Navy	Ireland .....	.....do.....	4 $\frac{1}{4}$	4 $\frac{1}{2}$
86	11	None .....	United States (colored).	Idiocy .....	2 $\frac{3}{4}$	3 $\frac{1}{2}$
87	63	Soldier .....	Ireland .....	Chronic dementia .....	4 $\frac{3}{4}$	5
88	49	No occupation (female).	United States.....	Chronic melancholia .....	.....	.....
89	46	....do .....	....do .....	Paresis .....	.....	.....
90	54	Soldier .....	....do .....	Chronic dementia .....	5	5
91	37	No occupation (female).	....do .....	Paresis .....	3 $\frac{1}{2}$	3 $\frac{3}{4}$
92	28	Servant (female)....	United States (colored).	Chronic recurrent mania....	6 $\frac{1}{4}$	7
93	33	No occupation (female).	United States.....	Acute melancholia.....	.....	.....
94	37	Soldier .....	Scotland .....	Chronic dementia .....	5	5
95	76	Unknown .....	Unknown .....	Senile dementia .....	4	3 $\frac{1}{2}$
96	51	Soldier .....	Germany .....	Chronic dementia .....	4 $\frac{3}{4}$	5
97	34	....do .....	United States.....	Paresis .....	4 $\frac{1}{2}$	4 $\frac{1}{2}$
98	67	....do .....	Ireland .....	Chronic mania .....	7 $\frac{1}{2}$	4 $\frac{1}{4}$
99	57	....do .....	Germany .....	Chronic recurrent mania .....	4 $\frac{1}{4}$	5 $\frac{1}{2}$
100	64	....do .....	....do .....	Chronic dementia .....	2 $\frac{1}{2}$	2 $\frac{1}{4}$

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Surface granular; capsule slightly adherent; cortex thin. Very slight increase of connective tissue. Cells were normal.	Pleuritic adhesions; cancer of stomach; biliary calculi. Weight of heart, 7 ounces.	Hrs. 16	
Cortex cystic and pale; surface smooth; microscopical appearance normal.	Pleuritic adhesions; hernia with ulceration of mucous membrane of bowel within the sac, and peritonitis. Weight of heart, 12½ ounces.	4	
Cortex thin; capsule easily separated; surface faintly granular. A decided increase of intertubular tissue and a number of fibrous glomeruli. Cells ill-preserved.	Double acute pleuritis, with effusion; chronic adhesive pericarditis, with fatty degeneration of heart muscle. Weight of heart normal.	21	Some <i>post-mortem</i> change in the cells.
Some congestion; surface slightly granular. A deposit of urates in the collecting-tubes. Some increase of intertubular tissue; epithelium much disintegrated.	Meningitis. Weight of heart, 4½ ounces.	22	<i>Post-mortem</i> change in the epithelium.
Surface pale, mottled, and granular; cortex thin. One cyst in the right. Capsule easily removed. Cells ill-preserved.	Pleuritic adhesions. Weight of heart, 17½ ounces.	13	
Kidneys not removed. A complete autopsy was not permitted.	Rupture of rectum and hernia of bowel; self-inflicted.	-----	(These cases were introduced to preserve the order of the case-numbers.)
Kidneys not examined .....	Death from exhaustion and bulbar paralysis.	-----	
Surface faintly granular; cortex thin but not contracted. Capsule adhered slightly, caused by small processes of connective tissue extending from it. Epithelium normal.	Pleuritic adhesions. Weight of heart, 13 ounces.	18	
General appearance normal. Cells slightly injured by <i>post-mortem</i> change.	Pulmonary tuberculosis; chronic pleuritic adhesions. Weight of heart, 7 ounces.	24	
Slight passive congestion; surface smooth. Epithelium generally normal, but in some tubules it was fatty and granular.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 8½ ounces.	6	Slight degree of cloudy swelling.
The kidneys were not examined, as a complete autopsy was not permitted.	-----	1	
Passive congestion. Slight adhesion of capsule. Small processes of connective tissue extended inward from the capsule. The cells were granular and fatty.	Pulmonary tuberculosis, with acute and chronic pleuritis; tubercular enteritis and peritonitis; pericarditis. Weight of heart, 8½ ounces.	4	
Small cysts in cortex; capsule easily separated, leaving a granular surface. Slight increase of tissue in limited areas. Epithelium normal.	Cerebral hemorrhage and softening. Weight of heart, 11¼ ounces.	15	
Surface granular; cortex thin; capsule slightly adherent; a few small cysts. Connective tissue increased; many glomeruli fibrous and obliterated. A few tubules contained hyaline casts and some were dilated into cysts. The epithelium was much disintegrated.	Pleuritic adhesions, with a recent inflammation of right side. Weight of heart, 14 ounces. Slight disease of valves.	7	
Pale; a few cysts; capsule slightly adherent. No appreciable increase of connective tissue; epithelium normal.	Slight pleuritic adhesions. Weight of heart normal.	6	
Surface irregular; large cyst in the right. No increase of connective tissue; cells fatty, but otherwise normal.	Pleuritic adhesions. Weight of heart, 18¾ ounces. Obesity.	12	
Surface faintly granular; cortex thin and cystic. Slight increase of connective tissue and some fibrous change of glomeruli. Epithelium was slightly crumbled.	Cerebral softening; pleuritic adhesions. Weight of heart, 12 ounces.	8	
Surface granular; capsule slightly adherent; a few small cysts and fibrous glomeruli. Connective tissue increased. Cells normal.	Cerebral softening; pleuritic adhesions. Weight of heart, 20 ounces. Aortic and mitral valvular disease.	5½	



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
101	32	Soldier.....	United States.....	Chronic mania .....	6 $\frac{1}{4}$	5 $\frac{1}{2}$
102	34	....do .....	Norway.....	Acute melancholia.....	5 $\frac{1}{2}$	6
103	48	....do .....	United States.....	Chronic dementia .....	3 $\frac{3}{4}$	4 $\frac{1}{4}$
104	43	....do .....	England .....	Primary dementia.....	5 $\frac{1}{2}$	5 $\frac{1}{2}$
105	52	....do .....	Germany .....	Chronic mania .....	7 $\frac{1}{4}$	7 $\frac{1}{4}$
106	50	....do .....	Ireland .....	Primary dementia.....	4	5
107	60	Laborer.....	United States (colored).	Paresis.....	3 $\frac{3}{4}$	4
108	20	No occupation (female).	United States.....	Imbecility .....	3 $\frac{1}{2}$	3 $\frac{3}{4}$
109	50	Farmer.....	....do .....	Chronic dementia .....	5	5 $\frac{1}{4}$
110	36	Soldier.....	Germany .....	Paresis.....	8 $\frac{1}{4}$	8
111	45	....do .....	United States.....	Primary dementia.....	3 $\frac{1}{4}$	4
112	25	....do .....	Germany .....	Acute mania .....	5	5 $\frac{3}{4}$
113	62	....do .....	Ireland .....	Chronic dementia .....	7 $\frac{1}{2}$	7 $\frac{1}{4}$
114	41	Cook .....	United States (colored.)	....do.....	5 $\frac{1}{4}$	4 $\frac{1}{2}$
115	44	Soldier.....	....do .....	Acute recurrent mania.....	4	4 $\frac{1}{4}$

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
		<i>Hrs.</i>	
Pale, yellowish white, mottled; pyramids brownish red; capsule not adherent. No increase of connective tissue between the tubules, but small richly nucleated areas were found throughout the cortex. The cells were uniformly disintegrated, leaving only a thin ring of protoplasm in which were the nuclei.	General cedema; pleuritic adhesions, with effusion. Weight of heart, 20 ounces. Aortic and mitral valvular disease.	16	Cloudy swelling, with primary necrotic change in the epithelium. Symptoms of Bright's disease.
Appearances normal except a few cysts in the right. Epithelium normal, but the inner margins were irregular.	Pulmonary tuberculosis, with pleuritic adhesions; pericarditis, and tubercular ulceration of intestines.	24	
Naked-eyes; appearances normal. Epithelium swollen and the inner portion of the cells much broken.	Weight of heart, normal.	6	
General appearance normal; a hemorrhage in cortex of left. The epithelium was somewhat broken, but had been normal.	Pleuritic adhesions; slight hemorrhage within the bowel. Weight of heart, 11½ ounces.	10	
Cortex cystic; surface granular; capsule easily removed. A moderate increase of nucleated connective tissue, some fibrous glomeruli, and some tube-casts <i>in situ</i> . The cells were swollen and much disintegrated; the tubules were dilated, and many were filled with granular matter.	Hydrothorax and circumscribed pleuritic adhesions. Weight of heart, 23½ ounces. Slight valvular disease; pericardial effusion.	6	
Surface faintly granular; a few cysts in cortex; capsule not adherent. Very slight increase of connective tissue; cells normal.	Pneumonia; pleuritic adhesions. Weight of heart, 9¼ ounces.	2½	
Cortex pale, mottled, and narrow. Epithelium granular and disintegrated, being broken away to a level with the nuclei.	Pneumonia and chronic pleuritic adhesions. Weight of heart, 9¾ ounces.	14	
Pale, but otherwise normal to naked eye. Inner portion of cells much broken down.	Acute phthisis. Weight of heart, 5½ ounces.	2	
Surface faintly granular; capsule slightly adherent; one small cyst. Moderate increase of connective tissue; epithelium was normal.	Pulmonary tuberculosis; pleuritic adhesions. Weight of heart, 9¼ ounces.	7	
Pale; ureter and pelvis dilated. The epithelium was much disintegrated and the few cells remaining intact were swollen and granular.	Minute cerebral softening. Weight of heart, 11 ounces.	10	
Some congestion and contraction; capsule slightly adherent. Very little increase of connective tissue. Epithelium did not stain well, but had been normal.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 10 ounces.	27	
The naked-eye appearances were normal. The epithelium was slightly altered by <i>post-mortem</i> change.	Pulmonary tuberculosis; pleuritic adhesions; pericardial effusion. Weight of heart, 9½ ounces.	30	
Surface irregular; cysts in cortex; capsule slightly adherent. Connective tissue much increased; epithelium small, irregular, and granular, and casts were found in some of the tubules. A number of obliterated glomeruli were found.	Hydrothorax; pleuritic adhesions and recent inflammation; adhesive pericarditis; valvular disease and hypertrophy of heart; cirrhosis of liver; ascites.	6	
A few small cysts in the cortex; capsule easily removed. A moderate increase of connective tissue and some fibrous glomeruli. The cells were generally well preserved, but in some tubules they were granular and disintegrated.	Pulmonary tuberculosis. Weight of heart, normal.	12	
Passive congestion; capsule easily removed. Some increase of intertubular tissue. Cells had undergone some <i>post-mortem</i> change.	Pulmonary tuberculosis, with pleuritis. Multiple abscess of the liver. Weight of heart, 8½ ounces.	24	



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
116	43	Soldier.....	United States.....	Paresis.....	Ounces. 5	Ounces. 5½
117	34	....do .....	Ireland .....	Acute mania .....	7½	18½
118	25	Laborer.....	United States (colored).	....do .....	5	6
119	40	....do .....	....do .....	Paresis.....	4	4½
120	50	....do .....	United States.....	Chronic mania, with chorea..	5½	5½
121	40	Soldier .....	....do .....	Chronic mania .....	5½	5½
122	29	Laborer .....	United States (colored).	Chronic epileptic dementia..	6½	6½
123	44	Soldier .....	Germany .....	Chronic mania .....	4½	5
124	44	....do .....	Ireland .....	Acute melancholia .....	4½	4¼
125	44	....do .....	United States.....	Paresis.....	3¼	4¼
126	40	....do .....	....do .....	Epileptic dementia.....	6	7
127	34	....do .....	Germany .....	Acute melancholia .....	5	6
128	65	Gardener .....	Ireland .....	Chronic dementia .....	5¼	6
129	40	Farmer .....	United States.....	....do .....	5½	5½

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Slight passive congestion, otherwise normal to naked eye. Epithelium normal; cells unusually distinct.	Pulmonary tuberculosis; pleuritic adhesions, with effusions; local peritonitis. Weight of heart, 10 ounces.	Hrs. 11	
The left was greatly enlarged and converted into a ragged cyst by tubercular pyelonephritis. By way of the ureter and ulceration of its lower end, the pus had reached, and ruptured, in the left groin. The right was swollen, but otherwise normal to naked eye. The left showed tubercular inflammation; the right, early amyloid change in the glomeruli, and slight disintegration of the cells.	Pulmonary tuberculosis, with recent pleuritis; tuberculosis of testicle; ulceration of bladder; amyloid disease of liver, spleen, and kidney. Weight of heart, 9¾ ounces.	12	
Passive congestion; capsule easily separated. The epithelium generally normal, but in some tubules much disintegrated.	Tuberculosis of lungs, spleen, intestine, and peritoneum: death from rupture of tubercular ulcer of intestine.	3	
Slight congestion. Epithelium was considerably disintegrated and coarsely granular.	Pleuritic adhesions; cystitis. Weight of heart, 10½ ounces.	24	
Pale; surface irregular; capsule adherent. Slight localized increase of connective tissue beneath the capsule. Epithelium slightly altered by <i>post-mortem</i> change, otherwise normal.	Pleuritic adhesions; collapse of left lung from fibroid phthisis. Weight of heart, 11 ounces.	24	
Slight contraction of cortex and adhesion of capsule. Some small areas of nucleated connective tissue were found beneath the capsule. The cells had crumbled considerably.	Pleuritic adhesions, brown induration of lungs; chronic bronchitis. Weight of heart, 16½ ounces. Valvular disease.	16	
Slight congestion, otherwise normal to naked eye. Epithelium granular from <i>post-mortem</i> change.	Pleuritic adhesions. Weight of heart normal.	10	
Tissue dense and pale; capsule adherent. Slight increase of connective tissue. Epithelium had been normal, but there was some crumbling of inner portions of cells.	Bronchitis. Weight of heart, 12¼ ounces.	5	
Passive congestion; capsule easily removed. Cells and tissue normal.	Double hydrothorax, with congestion of lungs. Weight of heart, 9½ ounces.	7	
Pale; cortex thin; capsule slightly adherent. One small cyst in the right. The microscopical appearances were normal.	Slight pleuritic adhesions. Weight of heart, 9 ounces.	6	
Appearances normal; confirmed by the microscope.	Pulmonary tuberculosis and chronic pleuritic adhesions. Weight of heart, 12½ ounces.	11	
Appearances normal to naked eye. The epithelium was in general well preserved, but in some of the tubules the cells had disintegrated to a level with the nuclei, and the tubules contained granular matter.	Pulmonary tuberculosis, with circumscribed adhesions of pleura on right side. Weight of heart, 7½ ounces.	3	Cloudy swelling of mild degree.
Slight passive congestion; surface faintly granular. Unimportant increase of intertubular tissue; cells normal.	Pleuritic adhesions, with hydrothorax; cancer of stomach. Weight of heart, 8¼ ounces.	2	
Pale and mottled; veins prominent; tissue firm; surface granular. A decided increase of nucleated connective tissue; some of the Malpighian bodies were fibrous and some contained an increased number of epithelial cells within the capsules. Some tube casts were seen <i>in situ</i> . Tubular epithelium dwarfed and irregular.	Pulmonary tuberculosis and pleuritic adhesions. Weight of heart, 13½ ounces. Acute pericarditis.	24	The clinical symptoms in this case were those of chronic nephritis, complicating phthisis.



*Table showing the post-mortem appearances of the kidneys in two*

Number of cases.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					<i>Ounces.</i>	<i>Ounces.</i>
130	47	Street-hawker .....	Italy .....	Chronic epileptic dementia..	3½	3½
131	46	Drayman .....	Ireland .....	Chronic dementia .....	5¾	1½
132	43	Clerk .....	United States.....	Paresis .....	4¼	4¼
133	52	Soldier .....	Scotland .....	Chronic recurrent mania ....	5¾	5¾
134	43	Clerk .....	United States.....	Chronic dementia .....	4¾	4¾
135	61	Laborer .....	Ireland .....	.....do.....	6	6
136	54	Sailor.....	Prussia .....	.....do.....	3½	4¼
137	35	Laborer .....	United States.....	Acute mania .....	4	4¾
138	44	Soldier .....	Ireland .....	Chronic dementia .....	4¼	5
139	60	Unknown.....	West Indies .....	.....do.....	5½	6
140	46	Soldier.....	United States.....	Chronic mania .....	3¼	4¼
141	63	Carpenter .....	.....do .....	Chronic dementia .....	2¼	2¼
142	48	No occupation (fe- male).	Switzerland.....	Chronic mania .....	4¼	4¾
143	43	Marine, U. S. Navy..	United States.....	Chronic dementia .....	4¾	4¾
144	49	Laborer .....	Ireland .....	Chronic mania .....	5	6

*Hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Capsule not adherent. The microscopical appearances normal.	Pulmonary tuberculosis, with chronic pleuritic adhesions. Weight of heart, 9½ ounces.	Hrs. 15	
The left presented the typical appearance of granular contracted kidney. The right showed very little increase of connective tissue, and the epithelium was normal.	Cerebral softening. Pleuritic adhesions. Weight of heart, 11 ounces.	9	
Slight congestion, otherwise normal to naked eye. Microscopical structure normal.	Pulmonary tuberculosis; pleuritic adhesions. Weight of heart, 12¾ ounces.	19	
Surface irregular; cortex thin and cystic; capsule adherent. Unimportant increase of connective tissue. Epithelium normal.	Weight of heart, 17 ounces. Slight disease of valves; atheroma of aorta.	5	
The upper end of each presented great contraction and distortion; the remainder seemed normal. In the shrunken portions the usual appearances of interstitial nephritis; in the other parts the elements were normal.	Cerebral hemorrhage. Weight of heart, 13½ ounces.	18	No cause was discovered for the peculiar condition of the kidneys.
A few cysts in the cortex. Capsule slightly adherent. A moderate increase of intertubular tissue. The cells in general were normal, but in a few tubules they had broken down, and the tubules contained globular and granular matter.	Pulmonary tuberculosis, with chronic pleuritic adhesions. Weight of heart, 14¾ ounces. Valvular disease; chronic peritoneal adhesions.	3	
Cortex contracted and cystic; capsule adherent. Great increase of connective tissue, in some places richly nucleated. Many glomeruli were obliterated; tubules dilated; epithelium small, irregular, and atrophied.	Pleuritic adhesions; slight hepatic cirrhosis; cystitis. Weight of heart, 10 ounces.	15	A typical case of advanced interstitial nephritis.
Appearances normal; confirmed by the microscope.	Pleuritic adhesions; cystitis. Weight of heart, 10½ ounces.	12	
Passive congestion; veins prominent; capsule slightly adherent. The cells had disintegrated to a level with the nuclei; tubules dilated. Connective tissue not increased.	Temperature in rectovesical fold, 103°F. four hours after death. Weight of heart, 11¼ ounces.	4	Cloudy swelling, due to high temperature.
Surface granular and the cortex full of small cysts; capsule adherent. Great increase of connective tissue; epithelium granular and much disintegrated. Some of the glomeruli were fibrous, and tube casts were found <i>in situ</i> ; tubules dilated.	Double hydrothorax, with limited adhesions of pleura; ascites; angioma of liver; double scrotal hernia. Weight of heart, 27½ ounces.	2½	The symptoms of cardiac and renal disease were very decided.
Congestion; slight adhesion of capsule. The microscopical appearances confirmed the above; otherwise normal.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 8 ounces.	2	
Surface granular; cortex thin; capsule adherent. A decided increase of nucleated connective tissue; some fibrous glomeruli. The epithelium generally normal, but in some tubules it was much disintegrated, and the lumen filled with granules.	Cerebral softening. Weight of heart, 14¾ ounces. Slight valvular disease.	2½	The symptoms of renal disease were prominent.
Surface slightly granular, and the capsule adherent. An unimportant increase of tissue; epithelium slightly fatty, but otherwise normal.	Carcinoma of breast, with secondary deposits in lung, liver, suprarenal capsule, etc. Weight of heart normal.	13	
Appearances normal; confirmed by the microscope.	Chronic pneumonia; pleuritic adhesions; pulmonary gangrene. Weight of heart, 10 ounces.	10	
Passive congestion; cortex thin; capsule slightly adherent. Some increase of connective tissue in limited areas; miliary tubercles. Cells showed slight <i>post-mortem</i> change.	Pulmonary tuberculosis, with pleuritis; cystitis. Weight of heart, 12 ounces.	14	



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
145	86	Farmer .....	United States.....	Senile dementia .....	4	4½
146	70	Laborer .....	United States (colored).	Chronic mania .....	4½	5½
147	73	Unknown.....	Ireland .....	.....do .....	4½	6
148	41	Soldier.....	United States.....	Chronic epileptic mania.....	5¾	5¾
149	43	.....do .....	Germany .....	Paresis.....	4½	4
150	48	Publisher.....	United States.....	Acute mania .....	5	7
151	57	Watchman .....	.....do .....	Chronic melancholia .....	5	5
152	32	Laborer .....	Ireland .....	Chronic mania .....	5½	5½
153	33	.....do .....	United States (colored).	Chronic epileptic mania.....	5½	5¾
154	48	Soldier .....	Germany .....	Paresis.....	4½	4¾
155	75	.....do .....	Canada .....	Chronic dementia .....	3½	4¾
156	41	Laborer .....	United States (colored).	Paresis.....	4¾	5½
157	29	Soldier.....	Germany .....	.....do .....	4¾	5
158	44	Fireman, U. S. Navy.	.....do .....	.....do .....	5½	5½
159	50	Marine engineer....	United States.....	.....do .....	4	4
160	70	Soldier .....	Germany .....	Chronic dementia .....	3	3½
161	52	.....do .....	United States.....	.....do .....	5½	7½
162	45	Hostler .....	United States (colored).	Paresis.....	6	7

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Surface irregular; cortex cystic; capsule adherent. Decided increase of intertubular tissue. The cells were cloudy and the nuclei did not stain well.	Chronic bronchitis. Weight of heart, 10½ ounces.	<i>Hrs.</i> 18	
A few small cysts in the cortex; capsule slightly adherent. The connective tissue not increased; epithelium crumbled at inner border.	Old peritoneal adhesions; cystitis, with calculi. Weight of heart, 11½ ounces.	8	
Organs soft and pale; capsule adhered to the softened tissue. No appreciable increase in the connective tissue. Epithelium very much degenerated, leaving only a ring of protoplasm around the tubule; the tubules dilated.	Pleuritic adhesions, with effusion. Weight of heart, 15½ ounces. Aortic valvular disease.	20	
Cortex pale; capsule easily removed. Epithelium slightly disintegrated, otherwise the elements were normal.	Limited pleuritic adhesions. Weight of heart, 15½ ounces.	8	Early stage of cloudy swelling.
Slight passive congestion, otherwise normal...	Chronic pleuritic adhesions; bronchitis. Weight of heart, 12 ounces.	16	
Slight irregularity of surface; capsule easily removable. Some increase of connective tissue; epithelium considerably broken at the inner portion.	Malarial enlargement of the spleen. Weight of heart, 15½ ounces.	12	
Cortex pale, cystic; surface granular; capsule easily separable. Connective tissue normal. Epithelium much disintegrated.	Plenritic adhesions; chronic adhesive pericarditis. Weight of heart, 9¼ ounces.	15	The condition of the cells due to accident.
Appearances normal; confirmed by microscopical examination.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 11 ounces.	4	
Appearances normal to naked eye, but the microscope showed the cells to be granular and somewhat crumbled.	Pleuritic adhesions. Weight of heart normal.	5	
Organs normal; confirmed by microscopical examination.	Pleuritic adhesions; pulmonary gangrene. Weight of heart, 8¾ ounces.	7	
Surface granular; capsule adherent. A decided increase of connective tissue and many fibrous glomeruli. Vessel walls thickened. Epithelium fatty and much crumbled.	Cerebral softening. Pleuritic adhesions and effusion. Weight of heart, 21½ ounces. Valvular disease.	3	
Appearances normal; confirmed by microscopical examination.	Pulmonary tuberculosis, with chronic pleuritic adhesions. Weight of heart, 9¾ ounces.	6	
Pale; pelvis dilated. Slight crumbling of cells, with indications of fatty change in some of the tubules.	Weight of heart, 8½ ounces.	10	
Surface faintly granular; capsule easily removed. The cells had broken down at their inner borders, and were granular and fatty.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 8½ ounces.	9	
Some scars on the surface; a few cysts in cortex; large amount of fat around the pelvis. Epithelium generally normal, but in a few tubules it was fatty and granular.	Cerebral softening. Plenritic adhesions. Acute endocarditis; peritonitis. Weight of heart normal.	6	
Surface granular; capsule slightly adherent. Some increase of connective tissue. Epithelium almost completely disintegrated, probably <i>post mortem</i> .	Chronic plenritic adhesions; bronchitis. Weight of heart, 7¼ ounces.	18	
Some scars of surface; capsule easily removed. Moderate amount of connective tissue and some fibrous glomeruli. The epithelium was much disintegrated, and the tubules filled with granular matter.	Chronic pleuritic adhesions, with effusion. Weight of heart, 15½ ounces. Biliary calculi.	18	<i>Post-mortem</i> change in the epithelium.
Appearances normal; confirmed by the microscope.	Congestion of lungs.....	6	



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
163	65	Soldier.....	United States.....	Chronic dementia .....	3 $\frac{1}{4}$	3 $\frac{3}{4}$
164	42	.....do .....	Ireland .....	Chronic epileptic dementia..	5 $\frac{1}{4}$	6
165	50	Unknown.....	United States (colored).	Acute mania .....	4 $\frac{1}{2}$	4 $\frac{1}{4}$
166	73	Soldier.....	Switzerland .....	Chronic epileptic dementia..	4 $\frac{1}{4}$	7 $\frac{1}{4}$
167	38	No occupation (female).	United States.....	Paresis.....	3 $\frac{3}{4}$	3 $\frac{3}{4}$
168	79	Soldier.....	Germany .....	Senile dementia .....	2 $\frac{1}{4}$	2 $\frac{1}{2}$
169	58	Civil engineer .....	Ireland .....	Chronic mania .....	4 $\frac{3}{4}$	5 $\frac{1}{2}$
170	61	Servant (female)....	United States (colored).	Senile dementia .....	3 $\frac{1}{4}$	3 $\frac{3}{4}$
171	45	Soldier .....	United States.....	Chronic melancholia .....	7 $\frac{1}{4}$	5 $\frac{1}{4}$
172	40	No occupation (female).	.....do .....	Chronic mania .....	4 $\frac{3}{4}$	5 $\frac{1}{4}$
173	55	Farmer .....	.....do .....	Chronic epileptic mania.....	3 $\frac{3}{4}$	4
174	58	Soldier.....	Germany .....	Chronic dementia .....	3 $\frac{1}{2}$	3 $\frac{1}{2}$
175	27	.....do .....	United States.....	Acute mania .....	9	8 $\frac{3}{4}$
176	46	.....do .....	Germany .....	Paresis.....	4	4 $\frac{1}{2}$
177	72	Beneficiary, U. S. N.	Belgium .....	Senile dementia .....	4 $\frac{1}{4}$	4

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
		Hrs.	
Surface granular; cortex cystic; capsule adherent. Connective tissue much increased, many fibrous glomeruli and small cysts. Epithelium much broken down at the inner margins. Tube casts <i>in situ</i> .	Pneumothorax; bronchitis. Weight of heart, 9½ ounces.	18	
Slight passive congestion; surface faintly granular; capsule easily separable. Slight increase of connective tissue. Epithelium showed evidences of <i>post mortem</i> change.	Pleuritic adhesions; congestion of lungs. Weight of heart, 12½ ounces.	20	
Pale, surface smooth; capsule slightly adherent. Very slight increase of tissue, and a few fibrous glomeruli. Many hyaline casts <i>in situ</i> . Cells were swollen and cloudy and considerably broken down at the inner borders.	Chronic pleuritic adhesions. Weight of heart, 11 ounces.	6	Typical cloudy swelling, with necrosis of the epithelium.
Surface granular; cortex cystic; capsule slightly adherent. Wedge-shaped processes of connective tissue containing atrophied elements. Epithelium was broken and granular. Appearances normal to naked eye. Tubules dilated; epithelium swollen.	Pleuritic adhesions; biliary calculi. Weight heart, 11 ounces.	16	<i>Post-mortem</i> change in the cells.
	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 7¼ ounces.	5	Cloudy swelling.
Pale and mottled, surface granular; cortex thin; stellate veins prominent; deposit of urates in the pyramids. Much increase of connective tissue; fibrous glomeruli; tube casts <i>in situ</i> . Some of the epithelium had crumbled, but in general it was well preserved.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart 8 ounces.	12	Though possibly a case of senile atrophy, it had certainly reached a pathological degree.
Surface granular and mottled; a few small cysts in the cortex, and some hemorrhages beneath the capsule. Slight connective-tissue increase. The epithelium was swollen and the tubules dilated.	Inflammation of serous membranes of brain, heart, and lungs; pneumonia. Weight of heart, 10½ ounces. Slight disease of valves.	3½	Moderate degree of cloudy swelling due to the concurrent disease.
Surface granular, cortex thin; capsule adherent. Moderate increase of tissue in localized areas. Cells were cloudy in some places, but were generally well preserved.	Cerebral softening; cerebritis; pleuritic adhesions. Weight of heart, 12¼ ounces.	5½	
The right contained a large cyst, occupying four-fifths of its bulk. The walls of the cyst were calcified; no communication existed between cyst and pelvis of the kidney. An examination of the left showed some increase of fibrous tissue and very slight <i>post-mortem</i> change in the epithelium.	Cerebral softening. Weight of heart, 10¼ ounces.	58	
Surface granular; capsule adherent. Increase of connective tissue; fibrous and cystic change in the glomeruli, with proliferation of the capsular epithelium and compression of the tufts. The epithelium was granular, and did not stain well.	Pulmonary tuberculosis and gangrene; pleuritic adhesions. Weight of heart, 10 ounces.	12	
Moderate contraction of cortex and adhesion of capsule. The epithelium was generally normal, but in some tubules it was granular and fatty.	Weight of heart, 8¼ ounces. Anæmia and emaciation.	10	
Surface faintly granular; adhesion of capsule. Increase of connective tissue; epithelium compressed, misshapen, and granular, and many of the tubules contained loose cells.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 8 ounces.	24	The change in the epithelium was in part <i>post-mortem</i> .
Organs œdematous, pale, and much scarred on the surface; the capsule was adherent, especially over the scars. Small localized areas of nucleated tissue. Epithelium swollen, granular, and disintegrated.	Cerebral softening from embolism; acute pleuritis, with effusion. Valvular disease of heart; weight of organ, 20½ ounces.	17	The condition of the cells was in part due to <i>post-mortem</i> change.
Surface mottled; capsule easily removed. A few small processes of connective tissue beneath the capsule. Epithelium normal.	Slight chronic pleuritic adhesions. Weight of heart, 8¼ ounces.	4	
Organs scarred and contracted; renal artery very atheromatous. Connective tissue increased; epithelium small, irregular, and granular, and much granular matter in the tubules.	Pleuritic adhesions, with effusion. Weight of heart, 12 ounces.	12	Probably senile change.



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
178	25	Servant (female)....	United States (colored).	Chronic mania .....	4 $\frac{1}{2}$	4 $\frac{1}{2}$
179	32	Unknown.....	United States.....	Chronic dementia .....	4 $\frac{3}{4}$	4 $\frac{1}{2}$
180	47	Cook.....	do .....	Paresis.....	4	4
181	49	Laborer.....	United States (colored).	Chronic mania .....	.	.
182	51	Fisherman .....	Ireland .....	Chronic dementia .....	4 $\frac{1}{4}$	4 $\frac{1}{4}$
183	47	Laborer.....	United States (colored).	Chronic epileptic mania.....	6	6
184	47	Soldier.....	do .....	do .....	3 $\frac{3}{4}$	4
185	49	Laborer .....	do .....	Acute mania .....	4 $\frac{1}{4}$	4 $\frac{3}{4}$
186	55	do .....	do .....	Chronic dementia .....	5 $\frac{3}{4}$	4 $\frac{3}{4}$
187	53	Soldier.....	United States.....	do .....	7	8
188	46	do .....	Germany .....	Paresis.....	4 $\frac{1}{2}$	4 $\frac{1}{2}$
189	51	do .....	United States.....	Chronic dementia .....	7 $\frac{1}{4}$	7
190	47	Farmer.....	do .....	do .....	3 $\frac{1}{4}$	4
191	51	Laborer.....	England .....	Acute mania .....	3 $\frac{1}{2}$	3 $\frac{1}{2}$
192	40	Sailor.....	Ireland .....	Chronic dementia .....	5 $\frac{1}{2}$	5
193	64	Musician .....	do .....	do .....	5 $\frac{1}{2}$	5 $\frac{1}{2}$
194	87	Sailor.....	England .....	Senile dementia .....	5 $\frac{1}{2}$	6

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co existing physical disease.	Length of time after death when examination was made.	Remarks.
		Hrs.	
Slight passive congestion. The connective tissue rather distinct; cells injured by <i>post-mortem</i> change, but had probably been normal.	Limited adhesion of pleura; acute pericarditis. Weight of heart, 8½ ounces.	22	
Scar in the left; otherwise the organs appeared normal. The epithelium was granular and fatty.	Pulmonary tuberculosis; pleuritic adhesions; acute peritonitis. Weight of heart, 8½ ounces.	5	
A complete autopsy was not allowed			
A few cysts in cortex; capsule slightly adherent. Connective tissue increased; cells small, irregular, and crumbled.	Chronic pleuritic adhesions. Weight of heart, 11½ ounces.	10	
Appearances normal to naked eye; confirmed by the microscope.	Chronic pleuritic adhesions and chronic bronchitis. Weight of heart, 7½ ounces.	18	
Organs swollen; slight adhesion of capsule. Increase of connective tissue between the tubules. The epithelium was disintegrated to a level with the nuclei in many tubules, and the cells remaining intact were swollen.	Chronic pleuritic adhesions. Weight of heart, 16½ ounces. Chronic valvular disease.	24	Condition of the cells probably due to cloudy swelling and <i>post-mortem</i> change.
General appearance normal. The microscope showed some crumbling of the epithelium.	Cerebral softening; pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 8½ ounces.	3	
Passive congestion; surface smooth; capsule easily removed. Cells granular and much disintegrated at the inner margins.	Pleuritic adhesions. Acute aortitis and atheroma. Weight of heart, 10 ounces.	5	
Capsule slightly adherent. Connective tissue somewhat increased. Cells injured by accident during hardening.	Chronic pleuritic adhesions on the right; pyothorax on left side. Weight of heart, 12 ounces.	4	
Pelves dilated, and calculi lodged in each ureter. Increase of tissue. Cells were not well stained and were compressed and distorted.	Cerebral softening; pleuritic adhesions; cystitis and urinary calculi. Weight of heart, 10½ ounces.	18	
Cortex thin; surface granular. Some increase of connective tissue; epithelium normal.	Slight pleuritic adhesions; cystitis. Weight of heart, 10½ ounces.	12	
Appearances normal; confirmed by microscopical examination.	Cerebral hemorrhage. Weight of heart, 26 ounces.	1	
Normal to naked eye, but the microscope showed some fibrous glomeruli. Most of the epithelium was normal, but in some tubules the cells were fatty and had disintegrated.	Pleuritic adhesions. Weight of heart, 9 ounces.	14	
Surface granular; cortex thin; capsule adherent. Decided increase of connective tissue; epithelium atrophied, compressed, and much broken down.	Limited pleuritic adhesions. Weight of heart, 7 ounces.	19	Very decided <i>post-mortem</i> change in addition to disease.
Surface faintly granular and a few small cysts in cortex. A moderate increase of intertubular tissue. Slight fatty change in a few tubules; otherwise the epithelium was normal.	Pneumonia, with acute and chronic pleuritic adhesions. Weight of heart, 10 ounces.	13	
Pale, mottled; capsule adhered slightly. Some small processes of nucleated tissue beneath the capsule. Cells almost completely disintegrated, leaving only a thin layer of protoplasm above the basement membrane. A few tubules dilated.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 13¼ ounces. Slight valvular disease.	15	The cells were injured by <i>post-mortem</i> change, and some had been previously swollen.
Cortex thin and cystic; capsule slightly adherent. Decided increase of connective tissue; cells small, irregular, and somewhat broken.	Pleuritic adhesions. Weight of heart, 13½ ounces. Slight valvular disease and atheroma of vessels.	12	



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
195	50	Housekeeper (female).	United States.....	Chronic dementia .....	3½	4¼
196	58	Soldier.....	do .....	Senile dementia .....	4	4¼
197	51	Laborer.....	do .....	Paresis.....	3¾	4
198	57	Farmer.....	do .....	Chronic melancholia .....	3	2½
199	77	Soldier .....	Ireland .....	Senile dementia .....	3¼	4
200	38	No occupation.....	United States.....	Imbecility.....	2½	3
201	52	Laborer .....	do .....	Chronic dementia .....	3¾	4
202	44	Unknown.....	do .....	Chronic epileptic mania.....	5	4½
203	48	Soldier .....	Germany .....	Chronic mania .....	5¾	5¾
204	36	Laborer .....	Canada .....	do .....	4¾	5
205	34	Soldier .....	Ireland .....	Chronic dementia .....	7¾	8
206	75	Domestic (female)...	United States (colored).	Senile dementia .....	2½	2½
207	67	Carpenter .....	United States.....	do .....	6	6¼
208	55	Soldier .....	Ireland .....	Chronic dementia .....	3¾	4
209	56	Plasterer .....	United States.....	Chronic melancholia .....	4	4
210	79	Laborer .....	Ireland .....	Chronic mania .....	6¾	8

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Organs soft; superficial veins prominent. Moderate increase of tissue; cells did not stain well and were much crumbled.	Pleuritic adhesions; ovarian cysts. Weight of heart, 8 ounces.	Hrs. 23	Change in the cells was <i>post mortem</i> .
Scars on the surface; cortex pale and mottled; superficial veins prominent. The cells had disintegrated to a level with the nuclei, and the tubules were dilated and filled with granular matter. In many of the tubules the remaining portion of the cells contained bright yellow granules.	Pleuritic adhesions; slight valvular disease of the heart; weight, 11½ ounces. Pernicious anæmia.	4	The condition of the epithelium was probably due to the co-existing disease.
Capsule slightly adherent; superficial veins prominent. Some increase of connective tissue; cells considerably crumbled.	Pleuritic adhesions; bronchitis. Weight of heart, 8 ounces.	15	
Surface scarred and granular; cortex thin; capsule adherent. Deposit of urates in the pyramids. Much fat around the pelvis; one cyst in the right. Large increase of connective tissue; fibrous glomeruli. Cells somewhat disintegrated and some of the tubules contained granular matter.	Limited pleuritic adhesions. Weight of heart, 9½ ounces; slight valvular disease.	4½	Typical case of interstitial nephritis.
Surface granular; cortex cystic and thin; capsule adherent. Much increase of connective tissue; some fibrous and obliterated glomeruli; epithelium normal.	Pleuritic adhesions. Weight of heart, 19 ounces; slight disease of aortic valves.	12	
Appearances normal .....	Hydrocephalus. Weight of heart, 6½ ounces.	24	
Surface granular; capsule easily removed; stellate veins prominent. Small processes of connective tissue, containing atrophied gland elements, were found beneath the capsule; epithelium much disintegrated; tubules moderately dilated.	Double hydrothorax; pulmonary tuberculosis; chronic; peritonitis. Weight of heart, 7 ounces.	17	Probably some predisposition in the cells to early <i>post-mortem</i> change. (See Summary.)
Appearances normal to naked eye, but in the deeper portion of the cortex much increase of intertubular tissue was found; some tubecasts <i>in situ</i> . The epithelium was compressed and distorted in the sclerosed regions and normal elsewhere.	Chronic bronchitis. Weight of heart, 11¾ ounces.	15	
The organs were normal, except a slight increase of intertubular tissue.	Pleuritic adhesions; sarcoma of suprarenal capsule. Weight of heart normal.	18	
Passive congestion; small cysts in cortex; capsule slightly adherent. No appreciable increase of tissue; cells ill-preserved.	Pleuritic adhesions; peritonitis. Weight of heart, 11 ounces.	20	<i>Post-mortem</i> change in cells.
Organs congested; capsule adherent. Slight increase of connective tissue; epithelium much disintegrated at the inner portion; tubules moderately dilated.	Pneumonia, with acute pleuritis. Weight of heart, 11¾ ounces.	15	The condition of the cells due in part to <i>post-mortem</i> change.
Surface scarred and granular; cortex thin; capsule adherent. Connective tissue much increased; many glomeruli, fibrous and obliterated; tube casts <i>in situ</i> ; epithelium much disintegrated and granular.	Pleuritic adhesions. Weight of heart, 7¼ ounces.	12	
Surface faintly granular; cortex showed a few cysts; capsule easily separated. The tubules were moderately dilated, and the epithelium swollen and much broken down.	Double hydrothorax and hydropericardium. Weight of heart, 22 ounces; valvular disease.	15	
Surface irregular; cortex thin; capsule adherent. Slight increase of connective tissue; epithelium had crumbled away to a level with the nuclei, and the tubules contained granular matter.	Cerebral softening; limited pleuritic adhesions. Weight of heart, 12 ounces.	8	Slight degree of cloudy swelling.
Surface faintly granular; capsule slightly adherent. Very moderate increase of connective tissue; cells coarsely granular and broken at their inner margins; tubules dilated.	Pneumonia, with acute pleuritis. Weight of heart, 7¼ ounces.	24	Cloudy swelling and fatty degeneration of epithelium.
Surface slightly granular; capsule easily removed. Small processes of connective tissue at periphery of cortex; epithelium showed some crumbling of inner portion.	Pneumonia. Weight of heart, 14¾ ounces.	15	Epithelium showed a mild degree of cloudy swelling.



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
211	67	Teamster.....	United States.....	Chronic dementia.....	6½	6
212	50	Farmer.....	do.....	Chronic melancholia.....	2½	2½
213	63	Laborer.....	do.....	Chronic mania.....	3½	4½
214	44	do.....	do.....	do.....	4½	4½
215	60	Unknown (female)...	United States (colored).	Chronic epileptic dementia..	2¾	3
216	58	Soldier.....	Scotland.....	Chronic dementia.....	6½	7½
217	41	do.....	Prussia.....	do.....	6¼	6
218	27	Servant (female)....	United States (colored).	Paresis.....	3¾	3¾
219	37	Druggist.....	United States.....	do.....	3¾	4½
220	51	Harness-maker.....	United States (colored).	Acute mania.....	4	4½
221	48	Laborer.....	United States.....	Chronic epileptic mania.....	5¾	6½
222	49	Sailor.....	do.....	Paresis.....	5¾	5¾
223	68	Plasterer.....	do.....	Chronic mania.....	6½	5½
224	51	Soldier.....	do.....	Paresis.....	5	5½
225	41	do.....	Ireland.....	Chronic epileptic mania.....		
226	32	No occupation.....	United States (colored).	Paresis.....	4	3½
227	48	Baker.....	Ireland.....	Chronic dementia, with chorea.	3½	3½
228	47	Soldier.....	do.....	Chronic mania.....	3½	3½
229	45	Farmer.....	do.....	Chronic epileptic dementia..	3¾	4½

*Hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Surface irregular; a few cortical cysts. Slight increase of nucleated connective tissue; epithelium swollen and the inner portion disintegrated.	Cerebral softening; pneumonia, with acute pleuritis. Weight of heart, 11 ounces.	Hrs. 10	Cloudy swelling.
Dark red in color; surface smooth; superficial veins visible. Slight increase of intertubular tissue; cells in some tubules normal, in others slight crumbling of inner portion.	Pulmonary tuberculosis; pleuritic adhesions; atrophy of heart; weight, 5 $\frac{3}{4}$ ounces.	15	This was probably a case of simple atrophy of the kidneys.
Slight adhesion of capsule. Epithelium much disintegrated, leaving only a line of protoplasm above the basement membrane; tubules slightly dilated.	Chronic pleuritic adhesions. Weight of heart, 7 $\frac{1}{2}$ ounces.	24	<i>Post-mortem</i> change in the cells.
Surface smooth; capsule slightly adherent. Epithelium much injured by <i>post-mortem</i> change.	Chronic peritoneal adhesions. Weight of heart, 8 $\frac{1}{4}$ ounces.	28	
Surface granular; cortex thin; capsule adherent. Large areas of connective tissue overgrowth and atrophied gland elements, alternating with portions of normal gland structure; epithelium much disintegrated by <i>post-mortem</i> change.	Chronic pleuritic and peritoneal adhesions. Weight of heart, 9 ounces.	22	
Passive congestion; surface granular. Connective tissue slightly increased; epithelium fairly well preserved.	Hydrothorax, with cardiac valvular disease. Weight of heart, 25 ounces.	5	
Appearances normal, but the epithelium had crumbled a little at the inner margins.	Pulmonary tuberculosis; chronic pleuritic adhesions; rupture of aneurism into pericardium. Weight of heart normal.	5	
Some contraction of cortex and adhesion of capsule. Slight increase of connective tissue; cells were very granular and in some tubules completely broken down into granular matter.	Pulmonary tuberculosis, with pleuritic adhesions; uterine leiomyomata. Weight of heart, 7 $\frac{3}{4}$ ounces.	15	<i>Post-mortem</i> change of cells.
Cortex thin; superficial veins prominent. Connective tissue rather distinct; cells very much injured by <i>post-mortem</i> change.	Limited pleuritic adhesions. Weight of heart, 9 ounces.	48	
Appearances normal to the naked eye. Cells almost completely disintegrated by <i>post-mortem</i> change.	Apoplexy. Weight of heart, 11 ounces.	48	
Cysts in cortex; superficial veins prominent. Some increase of intertubular tissue; tubules dilated; some casts <i>in situ</i> ; cells atrophied and considerably broken at their inner margins.	Pulmonary tuberculosis, with pleuritis. Weight of heart, 12 $\frac{1}{2}$ ounces.	4	
Appearances normal; confirmed by microscopic examination.	Limited pleuritic adhesions. Weight of heart 12 $\frac{1}{2}$ ounces.	14	
Cysts in cortex and pyramids; surface granular and scarred; capsule slightly adherent. Some increase of connective tissue in the left; epithelium normal.	Acute pleuritis; bronchitis. Weight of heart, 13 $\frac{3}{4}$ ounces.	15	
Appearances normal to the naked eye. Tubules dilated; cells separated.	Limited pleuritic adhesions. Weight of heart, 11 $\frac{1}{2}$ ounces.	8 $\frac{1}{2}$	
Only the brain examined	Limited pleuritic adhesions; evidences of a former perityphlitis. Weight of heart normal.	18	
Slight adhesion of capsule. Some increase of intertubular tissue. In many tubules the cells were cloudy and the nuclei unstained, in others the cells were normal.	Pulmonary tuberculosis, with pleuritis. Weight of heart, 7 $\frac{3}{4}$ ounces.	18	<i>Post-mortem</i> change in the epithelium.
Cortex thin and contained some small cysts. Moderate increase of connective tissue. In some tubules the cells were normal, in others considerably broken down.	Chronic bronchitis. Weight of heart, 7 $\frac{1}{2}$ ounces.	15 $\frac{1}{2}$	<i>Post-mortem</i> change.
Surface faintly granular; capsule slightly adherent. Decided increase of connective tissue, and some crumbling of the epithelium.	Congestion of lungs. Weight of heart, 19 ounces; valvular disease.	13	
Surface granular. Capsule easily removed; cortex thin and cystic. The connective tissue much increased in localized areas. The epithelium was atrophied in the sclerosed regions, but normal elsewhere.			



Table showing the post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
230	37	Soldier.....	Prussia .....	Paresis.....	Ounces. 4 $\frac{3}{4}$	Ounces. 5 $\frac{3}{4}$
231	36	Unknown (female)...	United States (colored).	Chronic melancholia .....	3 $\frac{1}{2}$	4
232	92	Laborer.....	United States.....	Senile dementia .....	5 $\frac{3}{4}$	5 $\frac{1}{4}$
233	64	Soldier.....	England .....	Chronic mania.....	4	5
234	36	Sailor.....	United States.....	.....do.....	1	11 $\frac{1}{4}$
235	43	Marine U. S. Navy..	.....do .....	.....do.....	4 $\frac{1}{2}$	4 $\frac{1}{2}$
236	74	Sailor.....	.....do .....	Chronic melancholia .....	4 $\frac{3}{4}$	4 $\frac{3}{4}$
237	46	Boatman.....	.....do .....	Paresis.....	4	4 $\frac{1}{2}$
238	53	Soldier.....	.....do .....	Chronic epileptic dementia..	4 $\frac{1}{2}$	5 $\frac{1}{2}$
239	50	.....do .....	.....do .....	Chronic dementia .....	5 $\frac{1}{2}$	5 $\frac{1}{2}$
240	33	Marine, U. S. Navy..	Scotland .....	Paresis.....	4 $\frac{1}{4}$	5
241	19	Laborer.....	United States (colored).	Acute mania .....	4	4 $\frac{1}{2}$
242	70	.....do .....	.....do .....	Chronic mania .....	4 $\frac{3}{4}$	5 $\frac{3}{4}$
243	30	Sailor.....	United States.....	Acute melancholia .....	6 $\frac{1}{4}$	6 $\frac{1}{2}$
244	68	Soldier.....	England .....	Chronic epileptic dementia..	3 $\frac{1}{2}$	3 $\frac{3}{4}$
245	50	.....do .....	Germany .....	Chronic dementia .....	4 $\frac{3}{4}$	5 $\frac{1}{4}$
246	69	.....do .....	.....do .....	.....do.....	5 $\frac{3}{4}$	6 $\frac{1}{4}$
247	58	... do .....	United States.....	.....do.....	4 $\frac{1}{2}$	4

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Appearances normal to naked eye, but the microscope showed the tubules dilated and the cells swollen.	Pleuritic adhesions. Weight of heart, $11\frac{1}{4}$ ounces. The urinary bladder distended with urine.	Hrs. $3\frac{1}{2}$	
General appearance normal, but the microscope showed slight increase of connective tissue, and some crumbling of cells.	Pulmonary gangrene, with recent pleuritis. Weight of heart, $6\frac{1}{2}$ ounces.	15	
Surface granular; cortex thin, and contained small cysts; capsule adherent. Connective tissue increased; cells well preserved.	Pleuritic adhesions; emphysema and bronchitis. Weight of heart, $10\frac{3}{4}$ ounces.	$3\frac{1}{2}$	
Slight passive congestion. The tubules were dilated, and the epithelium broken down at the inner portion.	Chronic pleuritic adhesions. Weight of heart, $10\frac{1}{2}$ ounces.	12	Slight <i>post-mortem</i> change in the cells.
The left was hypertrophied; the right presented the appearance of arrest of development. The connective tissue normal, and the cells much disintegrated by faulty hardening.	Pneumonia. Weight of heart, $11\frac{1}{4}$ ounces.	3	
Surface faintly granular; cortex contained a few cysts; pale in color and rather thin. The connective tissue was rather distinct, and the epithelium had crumbled to a level with the nuclei; the tubules were dilated.	Chronic pneumonia; pleuritic adhesions. Weight of heart, $9\frac{1}{2}$ ounces.	5	
Appearances normal except a faintly granular surface. Moderate increase of connective tissue; cells normal.	Pulmonary tuberculosis, with acute and chronic pleuritis. Weight of heart, 12 ounces.	12	
Appearances normal except some <i>post-mortem</i> staining of the tissue; epithelium almost destroyed by decomposition.	Pleuritic adhesions. Weight of heart, $9\frac{1}{4}$ ounces.	90	<i>Post-mortem</i> change of cells.
Surface granular; cortex thin, and contained a few cysts. Large wedge-shaped areas of connective tissue, containing atrophied tubules and fibrous glomeruli. Epithelium fairly well preserved.	Pleuritic adhesions. Weight of heart, $12\frac{3}{4}$ ounces.	11	
One large cyst. A slight increase of connective tissue, and a few fibrous glomeruli. Epithelium disintegrated at the inner margins; capillaries and glomeruli full of blood.	Cerebral softenings and hemorrhages. Weight of heart, 16 ounces.	5	
General appearance normal, but the epithelium was granular, had broken away from the basement membrane, and the nuclei were not visible.	Pulmonary congestion. Weight of heart, $8\frac{1}{2}$ ounces.	13	Condition of the epithelium due to accident during hardening.
Cortex pale; superficial veins prominent. Epithelium swollen; tubules dilated.	Typhoid fever. Weight of heart, $8\frac{3}{4}$ ounces.	12	Cloudy swelling.
General appearance normal; epithelium was swollen and had disintegrated as far as the nuclei.	Acute pleuritis; cardiac hypertrophy. Weight of heart, $20\frac{1}{2}$ ounces. Aorta dilated.	15	See Summary.
Slight adhesion of capsule otherwise normal to naked eye. The epithelium generally normal, but in some tubules it was considerably disintegrated.	Pulmonary tuberculosis, with pleuritic adhesions. Tubercular peritonitis and enteritis. Weight of heart, $9\frac{3}{4}$ ounces.	8	
Surface faintly granular; a few small cysts in the cortex. Slight increase of connective tissue; cells had been normal, but were injured by <i>post-mortem</i> change.	Pleuritic adhesions. Weight of heart, 12 ounces.	15	
Surface was granular, and a few cysts were found in the cortex. Unimportant increase of connective tissue. Cells were swollen.	Leptomeningitis; pleuritic adhesions. Weight of heart, $17\frac{1}{4}$ ounces.	$7\frac{1}{2}$	
A few small cortical cysts and a slightly granular surface. A moderate increase of connective tissue; cells had crumbled away to a level with the nuclei; tubules dilated.	Cerebral softening. Pleuritic adhesions. Weight of heart, $9\frac{3}{4}$ ounces.	4	
Surface granular; cortex thin, and full of small cysts; capsule adherent. Great increase of connective tissue and many fibrous glomeruli. Many tubules dilated into cysts, and others contained casts. The epithelium was dwarfed and irregular in all.	Pleuritic adhesions. Weight of heart, 19 ounces. Slight aortic valvular disease.	$4\frac{1}{2}$	A typical case of chronic interstitial nephritis.



*Table showing the post-mortem appearances of the kidneys in two*

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					Ounces.	Ounces.
248	69	Soldier .....	Scotland .....	Senile dementia .....	5½	5½
249	75	.....do .....	United States (colored).	Homicidal mania .....	5	5½
250	53	Dentist .....	United States .....	Senile dementia .....	5¼	5
251	22	Domestic (female) ..	United States (colored).	Chronic melancholia .....	6	7
252	82	Soldier .....	Germany .....	Chronic dementia .....	4	4½
253	50	.....do .....	United States .....	Chronic mania (p resis) ....	4¾	5¼
254	73	.....do .....	.....do .....	Chronic dementia .....	4¾	5¼
255	53	.....do .....	Ireland .....	Chronic melancholia .....	5¾	6¾
256	30	No occupation .....	United States (colored).	Chronic epileptic mania .....	5½	5½
257	71	Shoemaker .....	United States .....	Senile dementia .....	4	4
258	63	Soldier .....	Germany .....	Chronic recurrent mania ....	5½	6½
259	57	.....do .....	.....do .....	Chronic melancholia .....	4	3¾
260	50	Unknown (female) ..	United States (colored).	Chronic mania .....	3¾	4¾
261	63	Soldier .....	Ireland .....	.....do .....	7¾	10
262	78	.....do .....	Germany .....	Senile dementia .....	7	7
263	61	.....do .....	United States .....	Chronic mania .....	6¼	8½
264	68	.....do .....	.....do .....	.....do .....	6¼	6
265	60	Tailor .....	Germany .....	.....do .....	6¼	5¼

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Surface granular; cortex thin and full of small cysts. Connective tissue increased; epithelium broken and granular. Some of the tubules were moderately dilated.	Cerebral softening; atehroma; pleuritic adhesions; anthracosis. Weight of heart, 11 $\frac{3}{4}$ ounces.	<i>Hrs.</i> 17 $\frac{1}{2}$	
Surface smooth; a few cysts in each. Unimportant increase of tissue; cells normal.	Cerebral hemorrhage. Pleuritic adhesions. Weight of heart, 10 $\frac{3}{4}$ ounces.	13	
Surface slightly granular. Two large cysts in the right. Very appreciable increase of connective tissue. The epithelium had crumbled to a level with the nuclei, and the tubules were dilated.	Cerebral softening. Weight of heart, 22 ounces.	10	
Cortex pale; pyramids darker: capsule easily separated. No increase of connective tissue: epithelium had crumbled to a line with the nuclei.	Pulmonary gangrene and pleuritic adhesions. Weight of heart, 8 $\frac{3}{4}$ ounces.	25	Cloudy swelling.
Surface granular. Connective tissue increased. The epithelium injured by <i>post-mortem</i> change.	Accidental fracture of skull. Weight of heart, 13 $\frac{1}{4}$ ounces.	30	
A few cysts in the cortex: capsule slightly adherent. Increase of connective tissue. Cells cloudy and broken down by <i>post-mortem</i> change.	Cerebral softening and limited pleuritic adhesions. Weight of heart, 10 $\frac{1}{2}$ ounces.	33	
Cortex dense, and contained small cysts; surface granular; capsule adherent. Slight increase of connective tissue; a few fibrous glomeruli and some tube-casts within the tubules. The epithelium was somewhat crumbled at the inner margins.	Cerebral softening; hydrothorax; hydropericardium; ascites. Weight of heart, 15 $\frac{1}{4}$ ounces.	9	
Appearances normal to naked eye. Some of the epithelium fatty and granular.	Acute pleuritis. Weight of heart, 15 ounces.	10	
Appearances normal, but with a tendency to crumbling of the inner portion of the epithelium.	Pneumonia, with pleuritis. Weight of heart, 10 $\frac{1}{4}$ ounces.	15	
Surface faintly granular; stellate veins prominent. A moderate increase of connective tissue: cells much disintegrated.	Pleuritic adhesions and bronchitis. Weight of heart, 13 ounces.	18	<i>Post-mortem</i> change.
Some passive congestion. Great crumbling of cells, probably <i>post-mortem</i> change. Tubules dilated.	Carcinoma; peritonitis. Weight of heart, 10 $\frac{1}{2}$ ounces.	18	
General appearance normal. Some slight <i>post-mortem</i> change in the epithelium.	Pleuritic adhesions. Weight of heart, 10 ounces.	17	Hardening was not successful.
Slight congestion; capsule slightly adherent. Moderate increase of connective tissue. Epithelium injured by <i>post-mortem</i> change.	Pleuritic adhesions. Weight of heart, 9 ounces.	14	
Organs appeared swollen; one cyst, and a scar on the surface. Epithelium normal; some amorphous material in the tubules.	Leptomeningitis; pneumonia with pleuritis. Weight of heart, 14 ounces.	19 $\frac{1}{2}$	
Surface granular; cortex thin and cystic. Increase of connective tissue. Epithelium considerably disintegrated and the cells which were intact much swollen.	Pulmonary tuberculosis, with pleuritic adhesions. Weight of heart, 15 $\frac{1}{4}$ ounces.	12	Cloudy swelling.
Swollen and pale; surface granular; cortex contained numerous cysts. Moderate increase of connective tissue. Epithelium much broken down, the result of cloudy swelling.	Pneumonia; pleuritic adhesions. Weight of heart, 14 $\frac{3}{4}$ ounces.	12	
Pale, and a few small cysts in the cortex. Slight increase of connective tissue, and a few microscopic cysts and fibrous glomeruli. Epithelium showed slight <i>post-mortem</i> change.	Pneumonia; hydrothorax. Weight of heart, 14 ounces. Acute valvular disease of aorta—pyæmic; abscess in cellular tissue of the back.	18	
General appearance normal, but there was some increase of intertubular tissue, and the cells were cloudy and considerably disintegrated.	Chronic pleuritic adhesions; cystitis. Weight of heart, 12 ounces.	17	



Table the showing post-mortem appearances of the kidneys in two

Number of case.	Age.	Occupation.	Nativity.	Mental disease.	Weight of kidneys.	
					Right.	Left.
					<i>Ounces.</i>	<i>Ounces.</i>
266	20	Laborer .....	United States(colored).	Chronic mania .....	5½	6¼
267	50	Unknown.....	do .....	Paresis.....	6	6
268	35	Soldier.....	Germany .....	do.....	5¼	5¾
269	56	Painter .....	Ireland .....	Chronic melancholia .....	4½	4½

Sex male, unless otherwise designated.

*hundred and sixty-three cases of mental disease, etc.—Continued.*

Condition of the kidneys.	Co-existing physical disease.	Length of time after death when examination was made.	Remarks.
Appearances normal. Epithelium was considerably crumbled at the inner margins, probably <i>post-mortem</i> change.	Pulmonary tuberculosis, acute; tubercular enteritis. Weight of heart, 7 ounces.	Hrs. 17	
Appearances normal to naked eye. Intertubular tissue in creased; cells normal.	Chronic pleuritic adhesions. Weight of heart, 14½ ounces.	13	
Appearances normal; confirmed by microscopical examination.	Limited pleuritic adhesions; lungs congested. Weight of heart, 13 ounces.	5	
Organs soft and deeply bile-stained; microscopical examination showed bile staining of the tissues, otherwise normal.	Carcinoma of duodenum, with obstruction of the bile-ducts. Weight of heart, 12 ounces.	15	



SUMMARY.

Of the 269 cases given in the foregoing table, examination of the kidneys was made in 263; in the others complete autopsy was not permitted, but there was no reason to suspect renal disease.

The organs were in all cases examined separately, but where the appearances were similar they are described as one in the table.

The hardening of the specimens was uniformly done in Müller's fluid (bichromate of potash two and one-half parts, sulphate of soda one part, water one hundred parts), and completed in alcohol, and the subsequent preparation for the microscope was by the usual infiltration methods; but in all doubtful and interesting cases other hardening agents and methods of preparation were used in conjunction to eliminate, if possible, any source of error.

In the table are recorded the appearances of the organs both normal and abnormal, and though at first sight it would seem that an unusual proportion of the cases were abnormal, it will be found that in a large number the deviation from the perfect standard is slight and unimportant.

A slight increase in the amount of connective tissue in an otherwise normal kidney is no more important, and certainly not more frequently found in autopsies, than chronic pleuritic adhesions; and the changes in the epithelium are in a great number of cases equally trivial, being simply the result of *post-mortem* change or accident.

In regard to the frequency of *post-mortem* change in the renal epithelium, my experience has been in accord with Dickinson and others, that the cortical cells are remarkably susceptible to it; but as the bodies were in all cases placed in a refrigerated chamber as soon as possible after death, the minimum of change has been assured.

There are, however, many cases in which the early *post-mortem* change is dependent upon some antecedent condition of the epithelium predisposing to rapid disintegration both before and after death. Of these conditions the most important are cloudy swelling and fatty degeneration, its later stage. In pneumonia, pulmonary tuberculosis, febrile diseases, and primary irritative affections of the kidneys this state of the epithelium is frequently observed, and several such cases appear in the table.

The cases in which the state of the kidneys was probably dependent upon or associated with, other diseases, age, occupation, etc., have not been separately designated, as these agencies have been given with this object in view.

Special diseases of the kidneys have received separate mention.

A synopsis of the table is appended:

Cases in which the elements were normal.....	49
Cases showing <i>post-mortem</i> or accidental change in the epithelium, but otherwise normal .....	51
Number in which the deviation from the normal was sufficient to constitute disease, including cases of <i>senile atrophy</i> of pathological degree.....	43
Unimportant increase of connective tissue, etc .....	104
Cloudy swelling and primary epithelial degeneration .....	2
Cloudy swelling, secondary, at least.....	8
Miliary tubercle, secondary .....	3
Tubercular pyelonephritis.....	1
Adenoma .....	1
Hydronephrosis.....	1

The above report is respectfully submitted to the superintendent.

I. W. BLACKBURN, M. D.,  
Special Pathologist.

## APPENDIX B.

No. 207 A STREET SOUTHEAST, WASHINGTON, D. C.,  
April 2, 1888.

SIR: In compliance with your request that previous to the semi-annual meeting of the Board of Visitors I should give a brief report of the dental work performed at the hospital, I have the honor to submit the following:

Prior to June, 1886, I had made occasional visits to perform operations for some patients whose condition rendered it inconvenient for them to leave the hospital. At this time it was suggested by you that, as a matter of experiment, I should make weekly visits, since many of the patients were suffering from the condition of their teeth, and the only means at hand to provide permanent relief was extraction, which would involve the loss of organs necessary for future comfort and health. Since the time mentioned I have been absent from the city a few months; with that exception my weekly visits have been quite regular.

From June, 1886, to the present time the number of patients for whom teeth have been filled is 91; the number of fillings inserted, 392. An accurate record of these operations has been preserved in a dental record provided at the hospital.

It should be taken into consideration that a large proportion of the teeth filled were those previously troublesome, many having exposed nerves requiring delicate treatment. Of the whole number filled over 98 per cent. have proved successful operations. Great care has been taken to inflict as little pain as possible, and, as a rule, the patients have given very little trouble, and have generally manifested considerable gratitude for the relief afforded. To avoid too much expense gold and platinum alloy has been generally used as a filling material, comparatively few teeth having been filled with gold.

In addition to these operations several hundred very bad teeth have been extracted, of which no record has been made.

It has been possible to attend to but few patients other than those actually suffering. Should it be thought best to put the teeth of all the patients for whom dental work could be performed in good condition, more time would be required than is at present allotted therefor.

It is obvious that the condition of the teeth has a marked effect upon the general health, and that, through the fifth pair of nerves, they may sometimes become the cause of insanity, seems to be well established. Dr. Taylor, before the Boston Society for Medical Improvement, "attaches great importance to the relation between decayed teeth and mental disorders." (See Boston Medical and Surgical Journal, August, 1862.) The same journal, October, 1860, gives a case narrated by Professor Hamilton, where insanity was caused by exostosis of the root of a tooth. Another case of mania from carious teeth coming under the observation of Dr. Pepper, in 1880, I find in American System of Dentistry, Volume III. More recent cases are reported in our various journals. I would suggest that this is a subject worthy of careful investigation.

Very respectfully,

J. V. CALVER, D. D. S.

Dr. W. W. GODDING,  
*Superintendent.*









